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1	FENNEMORE CRAIG, P.C. Jay L. Shapiro (No. 014650)	109 DEC -2 P 3: 56				
2	Todd C. Wiley (No. No. 015358)	Z CORP COMMISSION				
3	Suite 2600	DOCKET CONTROL				
4	Phoenix, Arizona 85012 Attorneys for Litchfield Park Service Company					
5						
6	BEFORE THE ARIZONA CORPORATION COMMISSION					
7	· · · · · · · · · · · · · · · · · · ·					
8	IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE	DOCKET NO: SW-01428A-09-0103				
9	COMPANY, AN ARIZONA CORPORATION, FOR A					
10	DETERMINATION OF THE FAIR VALUE OF ITS UTILITY PLANTS AND					
11	PROPERTY AND FOR INCREASES IN ITS WASTEWATER RATES AND CHARGES					
12	FOR UTILITY SERVICE BASED THEREON.					
13	IN THE MATTER OF THE APPLICATION	DOCKET NO: W-01427A-09-0104				
14	OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA	DOCKET NO. W-01427A-09-0104				
15	COMPANT, AN ARIZONA CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE					
16	OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN ITS	,				
17	WATER RATES AND CHARGES FOR UTILITY SERVICE BASED THEREON.					
18		DOCKETNO W 014274 00 0116				
19	IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE	DOCKET NO. W-01427A-09-0116				
20	COMPANY, AN ARIZONA CORPORATION, FOR AUTHORITY (1) TO					
21	ISSUE EVIDENCE OF INDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,755,000					
22	IN CONNECTION WITH (A) THE CONSTRUCTION OF TWO RECHARGE	Arizona Corporation Commission				
23	WELL INFRASTRUCTURE IMPROVEMENTS AND (2) TO	DOCKETED				
24	ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY FOR SUCH	DEC - 2 2009				
25	INDEBTEDNESS.	DOCKELED HA WW				
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FENNEMORE CRAIG PROFESSIONAL CORPORATION PHOENIX

IN THE MATTER OF THE APPLICATION 1 OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR AUTHORITY (1) TO 2 3 ISSUE EVIDENCE OF INDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,170,000 4 IN CONNECTION WITH (A) THE CONSTRUCTION OF ONE 200 KW ROOF 5 MOUNTED SOLAR GENERATOR INFRASTRUCTURE IMPROVEMENTS 6 AND (2) TO ENCUMBER ITS REAL PROPÈRTY AND PLANT AS SECURITY FOR SUCH INDEBTEDNESS. 7 8 9 10 11

DOCKET NO. W-01427A-09-0120

NOTICE OF FILING REBUTTAL **TESTIMONY**

Litchfield Park Service Company ("LPSCO" or "the Company") hereby submits this Notice of Filing Rebuttal Testimony in the above-referenced matter. Specifically filed herewith are the Company's Rebuttal Testimonies, which include the following testimonies, along with supporting schedules and/or attachments:

- Rebuttal Testimony of Gregory S. Sorensen; 1.
- 2. Rebuttal Testimony of Brian McBride;
- 3. Rebuttal Testimony of Thomas J. Bourassa (Rate Base); and
- 4. Rebuttal Testimony of Thomas J. Bourassa (Cost of Capital).

Per the Procedural Order dated November 23, 2009, the Company's rebuttal testimony to intervenor PebbleCreek Properties Limited Partnership ("PLLP") is not due until December 7, 2009. However, because the Company's motion to bifurcate was granted, the Company has included its rebuttal testimony to PLLP with this filing, and requests that PLLP provide its surrebuttal testimony on December 17, 2009, the same date that the other parties are filing their surrebuttal testimonies.

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FENNEMORE CRAIG PROFESSIONAL CORPORATION PHOENIX

1	DATED this 2nd day of December, 2009.
2	FENNEMORE CRAIG, P.C.
3	
4	By Jay I Shapira
5	Jay L. Shapiro Todd C. Wiley 3003 North Central Avenue
6	Suite 2600 Phoenix, Arizona 85012
7	Attorneys for Litchfield Park Service Company
8 9	
10	ORIGINAL and nineteen (19) copies
11	of the foregoing were filed this 2nd day of December, 2009, with:
12	Docket Control Arizona Corporation Commission
13	1200 W. Washington St. Phoenix, AZ 85007
14	1 Hochix, 112 03007
15	COPY of the foregoing hand-delivered this 2nd day of December, 2009 to:
16	Dwight Nodes
17	Assistant Chief Administrative Law Judge Hearing Division
18	Arizona Corporation Commission 1200 West Washington Phoenix Arizona 85007
19	Phoenix, Arizona 85007
20	Kevin Torrey, Esq. Legal Division Arizona Corporation Commission
21	1200 West Washington Phoenix, Arizona 85007
22	Michelle Wood, Esq.
23	RUCO 1110 W. Washington St., Suite 220
24	Phoenix, Arizona 85007
25	

1	COPY of the foregoing mailed this 2nd day of December, 2009 to:
2	·
3	Craig A. Marks, Esq. Craig A. Marks, PLC 10645 N. Tatum Blvd., Suite 200-676
4	Phoenix, AZ 85028
5	William P. Sullivan, Esq. Susan D. Goodwin, Esq.
6	Larry K. Udall, Esq. Curtis, Goodwin, Sullivan, Udall & Schwab
7	501 E. Thomas Rd. Phoenix, AZ 85012
8	
9	Martin A. Aronson Robert J. Moon Marrill & Aronson DI C
10	Morrill & Aronson, PLC One E. Camelback Rd., Suite 340 Phoenix A.7, 85012
11	Phoenix, AZ 85012 Chad and Jessica Robinson
12	15629 W. Meadowbrook Ave. Goodyear, Arizona 85395
13	Goodyear, Arizona 63333
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FENNEMORE CRAIG
PROFESSIONAL CORPORATION
PHOENIX

OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN ITS WASTEWATER RATES AND CHARGES FOR UTILITY SERVICE BASED THEREON. IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN ITS WATER RATES AND CHARGES FOR UTILITY SERVICE BASED THEREON. IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR AUTHORITY (1) TO ISSUE EVIDENCE OF INDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,755,000 IN CONNECTION WITH (A) THE CONSTRUCTION OF TWO RECHARGE WELL INFRASTRUCTURE IMPROVEMENTS AND (2) TO ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY FOR SUCH			
Jay L. Shapiro (No. 014650) Todd C. Wiley (No. No. 015358) 3003 N. Central Ave. Suite 2600 Phoenix, Arizona 85012 Attorneys for Litchfield Park Service Company BEFORE THE ARIZONA CORPORATION COMMISSION IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN ITS WASTEWATER RATES AND CHARGES FOR UTILITY SERVICE BASED THEREON. IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN ITS WATER RATES AND CHARGES FOR UTILITY SERVICE OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN ITS WATER RATES AND CHARGES FOR UTILITY SERVICE COMPANY, AN ARIZONA CORPORATION, FOR A LOTHORITY (1) TO ISSUE EVIDENCE OF INDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,755,000 IN CONNECTION WITH (A) THE CONSTRUCTION OF TWO RECHARGE WELL INFRASTRUCTURE IMPROVEMENTS AND (2) TO ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY FOR SUCH	1	FENNEMORE CRAIG, P.C.	
3003 N. Central Ave. Suite 2600 Phoenix, Arizona 85012 Attorneys for Litchfield Park Service Company 5 BEFORE THE ARIZONA CORPORATION COMMISSION 7 8 IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE 9 COMPANY, AN ARIZONA CORPORATION, FOR A 10 DETERMINATION OF THE FAIR VALUE 0F ITS UTILITY PLANTS AND 11 PROPERTY AND FOR INCREASES IN 11 ITS WASTEWATER RATES AND 12 CHARGES FOR UTILITY SERVICE BASED THEREON. 13 IN THE MATTER OF THE APPLICATION 14 OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE 0F ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN 11 ITS WASTEWATER ATES AND CHARGES FOR UTILITY SERVICE BASED THEREON. 16 OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR AUTHORITY (1) 17 O ISSUE EVIDENCE OF 1NDEBTEDNESS IN AN AMOUNT NOT 17 O EXCEED \$1,755,000 IN 22 CONNECTION WITH (A) THE CONSTRUCTION OF TWO RECHARGE WELL INFRASTRUCTURE IMPROVEMENTS AND (2) TO ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY FOR SUCH		Jay L. Shapiro (No. 014650)	
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CONSTRUCTION OF TWO RECHARGE WELL INFRASTRUCTURE IMPROVEMENTS AND (2) TO ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY FOR SUCH	22		
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FENNEMORE CRAIG A Professional Corporation Phoenix

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11	REBUTTAL TESTI	MONY
12	OF	
13	GREG SORENSEN	
14	(Phase 1 – Determination of Rat	e Base and Rates)
15	December 2, 20	00
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TABLE OF CONTENTS

2	
3	

1.	11/11	KODUCII	ON A	ND PURPUSE OF	TESTIMONY	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1
II.	STA	`AFF'S DIRECT FILING		***********	2			
III.	RUC	O ADJUS	TME	NTS TO RATE BAS	SE		••••••	13
IV.					PEBBLECREEK			
	A.	Rebuttal	to Pel	bbleCreek on Rate F	Base		••••••	31
	В	Rehuttal	to Cit	ty of Litchfield Park				33

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FENNEMORE CRAIG A PROFESSIONAL CORPORATION PHOENIX

5	Q.	ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?
6	A.	On behalf of the Applicant Litchfield Park Service Company ("LPSCO" or
7		"Company").
8	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
9	A.	I am employed by Liberty Water, formerly known as Algonquin Water Services
10		("AWS") as Director of Operations for the Western Group. For purposes of this
11		rebuttal testimony and this rate case, AWS and Liberty Water essentially can be
12		used interchangeably.
13	Q.	DID YOU PREVIOUSLY PROVIDE TESTIMONY ON BEHALF OF THE
14		COMPANY IN THIS CASE?
15	A.	Yes, my direct testimony was filed on March 9, 2009, with the Company's
16		application.
17	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
18	A.	To further support LPSCO's application for rate relief by responding to certain
19		aspects of the direct testimony of Utilities Division Staff ("Staff"), and the
20		intervenors RUCO and the City of Litchfield Park (the "City").
21	Q.	WHAT ABOUT THE OTHER INTERVENORS, PEBBLECREEK AND
22		WESTCOR?
23	A.	For the most part, the testimony by PebbleCreek Properties Limited Partnership
24		("PebbleCreek"), and the filing by Westcor/Goodyear LLC and Globe Land
25		Investors, LLC ("Westcor") address our request for hook-up fees. That aspect of
26		our application has now been moved into a second phase, so I will address their
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INTRODUCTION AND PURPOSE OF TESTIMONY

Suite D-101, Avondale, AZ 85392.

PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

My name is Greg Sorensen. My business address is 12725 W. Indian School Road,

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testimonies on hook up fees in a separate volume of my testimony when a procedural schedule governing Phase 2 is established.

Q. YOU SAID "FOR THE MOST PART" WITH RESPECT TO PEBBLECREEK. WHY?

A. PebbleCreek's recommendation that the Commission confiscate more than \$4 million of used and useful plant has to be addressed in Phase 1 where LPSCO's rate base is being established.

Q. HOW IS YOUR REBUTTAL TESTIMONY ORGANIZED?

A. In the first two sections of my testimony, I will respond to certain recommendations made by Staff and RUCO in their direct filings. In the last section of my rebuttal, I will address the testimony by the City, and by PebbleCreek, to the extent Mr. Zeblisky's testimony is germane to this phase of this rate case.

II. STAFF'S DIRECT FILING

Q. HAVE YOU REVIEWED STAFF'S DIRECT FILING?

A. I have reviewed the testimony of Jeff Michlik and Marlin Scott, Jr. My only rebuttal to Mr. Scott's engineering report will come in Phase 2 when the HUFs are addressed.

Q. DO YOU AGREE THAT THE PLANT IDENTIFIED BY MR. SCOTT IS NO LONGER USED AND USEFUL?

A. Yes, Mr. Scott identifies these specific plant items in his engineering report.¹

These assets were physically retired years ago, but since the last rate case. I will leave it to Mr. Bourassa to address the ratemaking implications of removing the plant from rate base.²

¹ Direct Testimony of Marlin Scott Jr., Report at 24.

² Rebuttal Testimony of Thomas J. Bourassa (Rate Base – Phase I) at 7-8, 20.

FENNEMORE CRAIG

A Professional Corporation
Phoenix

Q. MR. MICHLIK RECOMMENDS EXCLUSION OF THE CENTRAL OFFICE ADMINISTRATION COSTS ALLOCATED BY APIF. DO YOU WISH TO RESPOND?

A. Yes. Staff is removing more than half a million dollars from LPSCO's operating expenses. In recent rate cases for other utilities owned by Liberty Water, such as the Black Mountain Sewer Corporation (BMSC) and Gold Canyon Sewer Company (GCSC), the Commission expressed a strong preference for an actual cost based shared-service model.³ Previously, our shared service model used "market based rates" that included a profit. According to the Commission, it was simply a no-no for an unregulated affiliate to ever earn a profit providing services to regulated affiliates.⁴

After these decisions, we restructured our shared services model to a true cost-based approach. This was consistent with the testimony in opposition to our prior shared services model voiced by Staff in both cases, and consistent, we believed, with similar models employed with approval by other holding companies with utility subsidiaries regulated by the Commission. Now, with this rate case, and five other Liberty Water utility providers before the Commission seeking new rates, it appears to us that Staff went looking for even more costs to exclude.

Q. WAIT A MINUTE MR. SORENSEN, ARE YOU SUGGESTING THAT STAFF SHOULD NOT SCRUTINIZE YOUR ADMINISTRATION COSTS?

A. Of course not. As I answered Judge Nodes in the recent BMSC rate case hearing, we expect scrutiny of all of our expenses and investments, and even heightened scrutiny of our affiliate transactions. As the last BMSC rate case ordered, our

³ Black Mountain Sewer Corp., Decision No. 69164 (Dec. 5, 2006); Gold Canyon Sewer Co., Decision No. 69664 (June 28, 2007).

⁴ *Id*.

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affiliate transactions should be scrutinized to ensure there are no "potential abuses." But such scrutiny is not the same as a presumption that we are doing something wrong, nor does scrutiny preclude Staff from recognizing the improvements that we have already made. Yet, in neither case to date has Staff's witness pointed out to the Commission that we are operating in a substantially changed manner as result of what we were criticized for before. Scrutiny also does not mean that the costs, which represent services provided to the utility that are needed and/or that enhance the utility's operations, financial stability and health, or financial integrity, should be stricken from the Company's operating expenses.

Q. DOES MR. MICHLIK ALLEGE THAT LIBERTY WATER'S SHARED SERVICE MODEL IS ABUSIVE?

A. No, Mr. Michlik does <u>not</u> allege that we are doing anything corrupt or deceptive. He just believes that APIF is wrong by allocating more than 10 percent of a nearly \$4 million cost pool to its numerous subsidiaries.⁶

Q. WHY DOES MR. MICHLIK ASSERT THAT?

A. Staff's position is that customers do not benefit from 90 percent of the costs incurred by APIF that are passed down to the affiliates.⁷

Q. THEN WHY DOES STAFF ALLOW 10 PERCENT OF THOSE ADMINISTRATION COSTS?

A. We don't know. Frankly, it looks like Mr. Michlik just adopted Ms. Brown's position from the pending BMSC rate case.⁸ An analyst can always make

⁵ Black Mountain Sewer Corp., Decision No. 69164 (Dec. 5, 2006) at 19.

⁶ Direct Testimony of Jeffrey M. Michlik for Wastewater Division ("Michlik WW Dt.") at 15-16.

⁷ Direct Testimony of Jeffrey M. Michlik for Water Division ("Michlik W Dt.") at 17-18.

⁸ Surrebuttal Testimony of Crystal S. Brown dated November 9, 2009 at Schedule CSB-17, Docket No. SW-01361A-08-0609.

recommendations that lower expenses, but I don't think either Staff witness has shown that our costs are not reasonable, nor have they provided any support for the 90% figure, although I suppose they might respond then that it's better than eliminating 100% of the costs.

Q. HOW DO THE ADMINISTRATION COSTS INCURRED AT THE PARENT LEVEL BENEFIT THE RATEPAYERS?

A. The answer starts with why Liberty Water uses a shared services model in the first place. It is because a shared services approach centralizes common costs and spreads them across many companies. This is similar to how growth in a utility's customer numbers can lower the per-customer impact, and almost always yields a lower-cost result compared to a stand-alone entity. Staff agrees with the shared services model. In fact, Staff's opinion in BMSC's last rate case was that it would not be reasonable and prudent to operate each of our utilities on a stand alone basis. In other words, I think everyone agrees that beneficial economies of scale are achieved.

Q. SO WHAT IS THE PROBLEM?

A. For one thing, Staff is attempting to compare a shared services model with a hypothetical stand-alone utility that provides the bare minimum of services to its customers because it spends the bare minimum it has to in order to run its system. Unfortunately, this narrow view ignores the fact that the shared services model allows LPSCO, and all of Liberty Water's affiliates in Arizona, to obtain more and better services than they ever could on a stand alone basis. With the increased utility size comes some additional responsibilities, like audits, and costs, but these

⁹ Transcript from June 20, 2006 hearing at 778-779, *Black Mountain Sewer Corporation*, Docket No. SW-02361A-05-0657.

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added costs are more than offset by the economies of scale achieved through a shared services model.

For instance, the shared services model provides mid-size companies like LPSCO, access to higher level personnel and expertise that it otherwise wouldn't be able to at the prices that it receives them as part of the shared service group. These personnel and third-party costs, at the Liberty Water and APIF level, include billing clerks, telephone operators, plant operators, engineers, environmental and health/safety experts, accountants, tax experts, and capital markets and strategic management professionals. Because the costs of all of these people's expertise are shared, every utility and every utility's ratepayers benefit. This is as much a part of a shared services model as saving money on bulk paper and paper clips.

WOULDN'T LPSCO INCUR MANY OF THESE ADMINISTRATION Q. **COSTS ON A STANDALONE BASIS?**

Yes, which is why the comparison breaks down when applied to LPSCO, with A. more than 16,000 water and more than 16,000 wastewater customers, as compared to BMSC with 2,000 sewer customers. It was easy for Staff to argue that a small company like BMSC could live without certain things like professional tax services and audits, even though, as BMSC argued, these things are part of a well operated But LPSCO is required to have its own annual audit, needs tax utility. professionals, and would incur significant expense to maintain the same access to capital it has under the Liberty umbrella. LPSCO obtains all these things and more at a significant discount as part of the shared services model when compared to the amount it would incur on a stand alone basis.

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ARE THERE OTHER BENEFITS OF THE SHARED ADMINISTRATION Q. **COSTS FROM APIF THAT YOU CAN IDENTIFY?**

Yes. The APIF cost component of the shared services model also provides the A. benefits of ensuring proper corporate governance and strategic planning. Much of the total cost Staff proposes to exclude relates to the parent company's costs of being a publicly traded company. However, those costs also represent costs incurred to raise capital, including the capital that is raised for projects at LPSCO, which has consumed substantial capital investment in the last few years. These funds, including significant funding for work at the PVWRF, and for water projects like the airline reservoir and arsenic treatment, have to be raised somehow. Yet these costs are excluded under Mr. Michlik's adjustment. If APIF cannot allocate the costs to support access to capital markets for its regulated subsidiaries in Arizona, then those costs must not need to be incurred by those entities. But it will be much harder if not impossible for LPSCO to obtain needed investment capital.

In summary, all of the benefits of the costs allocated by APIF inure to the ratepayers because these costs allow us to provide adequate and reliable service at all our utilities at less cost than each utility could be run on a stand alone basis.

HOW LARGE IS THE ADMINISTRATION COST POOL ALLOCATED Q. **DOWN FROM APIF?**

The starting point is a test year pool of roughly \$5.1 million dollars of administration costs. This is higher than the number Staff reviewed, as their reviewed figure was the 2008 budgeted figure, not the actual test year costs. The detail of the \$5.1 million has been supplied to the parties to audit. These costs were incurred by Algonquin Power Trust ("APT"), which is the operating arm of APIF. From the total pool, Staff recommended that approximately \$190,000 of

charitable contributions, gifts and the like be excluded. We agree. However, the remaining \$4.9 million do benefit the subsidiaries and their customers as discussed. A simple way to compare is to think of these costs as akin to the costs of operating a central corporate headquarters. In that light, Staff's position is akin to arguing that the Safeways in Phoenix do not obtain any benefit from the corporate headquarters in Pleasanton, California.

Additionally, the pool of costs are allocated to both regulated and non-regulated business divisions, first based upon the number of owned entities in the respective Power and Utility Divisions. Therefore, since a majority of these costs are actually allocated to unregulated, for profit entities, cost control for the pool in total is still key, and the ratepayers of the regulated entities are not being unduly burdened with a disproportionate share of the cost pool. I believe this was the type of abuse the Commission legitimately directed Staff to scrutinize in the last BMSC rate case.

Q. DID THE COMPANY PROVIDE SUPPORTING DOCUMENTATION FOR THE ADMINISTRATION COSTS INCURRED AT THE PARENT LEVEL?

A. Yes, this cost pool was supported to Staff by an itemized list of every item in the \$5.1 million cost pool. Additionally, we provided copies of invoices for all items over \$5,000, and we offered to provide any additional invoices upon specific request.

¹⁰ These costs include what can be loosely described as corporate perks, things like hockey tickets, and other gifts. While these things are clearly part of any large business expenses, we have no intention of arguing these costs should be passed down to the ratepayers.

Q. HOW ARE THESE ADMINISTRATION COSTS ALLOCATED FROM APIF?

A. APIF owns 63 different facilities, 17 of which are regulated utilities in APIF's Infrastructure Division. 17 divided by 63 is just under 27 percent (26.98% to be exact), so 27 percent of the allocation pool is allocated to the Utilities Division containing the 17 utilities owned and operated by Liberty Water. From there, the costs are allocated between the 17 utilities based strictly on customer count. The amount allocated to LPSCO during the test year was approximately 13% of the total allocation pool, or \$518,441 based on a 2008 budget. The actual cost incurred during the test year is \$642,877. LPSCO is the largest regulated utility owned by Liberty Water.

Q. DOES STAFF AGREE WITH THE ALLOCATION METHODOLOGY?

A. No, Staff recommends using an allocation percentage for LPSCO of 1.41 percent of the total costs pool based on LPSCO being 1 of 71 facilities. This methodology is flawed as it assumes that utilities of all sizes require the same amount of resources, time and attention. For example, the simplified methodology proposed by Staff would imply that a utility such as Northern Sunrise, with 350 ratepayers, would require the same amount of corporate resources as LPSCO. That doesn't sound equitable.

Q. MR. SORENSEN, WHY DOES STAFF CLAIM THAT ALGONQUIN HAS 71 FACILITIES WHEN YOUR TESTIMONY SAYS YOU ONLY HAVE 63?

A. Staff includes facilities operated by APIF affiliates under operations contacts. We do not own these facilities and they do not receive the same level of services as LPSCO and the other Liberty Water regulated utilities. Their inclusion in the

¹¹ Michlik WW Dt. at 16-17; Michlik W Dt. at 18.

allocation formula might lower the per-utility costs, possibly Staff's goal, but it does not reflect operational realities.

Q. THANK YOU MR. SORENSEN, DO YOU HAVE ANY OTHER COMMENTS ON THE DISPUTE OVER ALLOCATION OF CENTRAL ADMINISTRATION OFFICE COSTS?

A. As a final note, I want to reiterate that while these costs are incurred in a non-regulated entity, that should be seen as further benefit. I have never bought into the argument that regulated utilities do not control their costs because they have captive ratepayers, especially before this Commission. But, non-regulated entities are constantly trying to cut their costs as each dollar cut falls to the bottom line as profit. This has never been more true than during the recent economic downturn. So, it is in APIF's interest to keep a close eye on its costs, including those in this shared services model, as those costs are allocated to other non-regulated facilities as well. In fact, significantly more costs are allocated to non-regulated entities than are allocated to regulated ones.

Again, LPSCO and its ratepayers get the most possible benefit at the lowest possible cost. That Staff does not see this is unfortunate, but it would be far more unfortunate to gut our shared services model. Unlike last time, there will be no way to restructure and retain all of the benefits. This means that the 7 utilities I oversee in Arizona will likely see a decrease in the quality of service. I am not going to get to share in the benefit if our systems do not share in the costs. I don't see how that would be in the public interest given our growing track record. Liberty Water has reduced odors and improved service at BMSC, GCSC and LPSCO, and we have resolved the McLain Water Systems mess. The response, to further reduce our costs, sends us the message we should not operate at such a high level of service.

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Q. MR. MICHLIK ALSO PROPOSES THAT RATE CASE EXPENSE BE NORMALIZED OVER 5 YEARS. DO YOU BELIEVE THAT IS APPROPRIATE?

- A. No, although Mr. Michlik is correct that LPSCO has not been in for a rate case in 9 years, this was largely the choice of the prior developer-owner. Liberty Water has already shown that it will bring rate cases on a more regular cycle in order to ensure we recover our operating expenses and earn returns on investments at the earliest possible date. In addition, since I am informed that Staff does not believe that unrecovered rate case expense can be recovered in a future rate case, Staff's 5-year normalization will place a large portion of the authorized rate case expense at risk for non-recovery. I do not think the amortization should be more than three years.
- Q. MR. MICHLIK ALSO REMOVED THE LEGAL AND WATER TESTING COSTS THAT WERE DEFERRED IN AN ACCOUNTING ORDER. DO YOU BELIEVE THAT IS APPROPRIATE?
- A. No. Mr. Michlik bases his adjustment on his mistaken belief that we have not taken the steps contemplated in the accounting order.¹² Mr. Michlik is wrong.
- Q. WHAT LEGAL STEPS HAVE BEEN TAKEN TO RECOVER FEES FROM

PARTIES BELIEVED TO BE RESPONSIBLE?

A. To date, we have utilized outside legal counsel to monitor the ongoing TCE Plume regulatory and related proceedings, as well as to represent us in a group of West Valley interested parties to assist, and sometimes prod, the EPA and Crane (responsible party) to act appropriately and expeditiously. While we attend these meetings as well (Matthew Garlick and myself), there are legal issues and

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¹² Michlik W Dt. at 13-14.

ramifications to things which we don't understand. Without counsel present, we may miss important issues or opportunities. These meetings have been successful to date in accelerating the clean-up effort, as well as stressing the importance of reinjecting the treated water back into the local aquifer. This is protecting the Company's and our customers' long term water supply.

Additionally, we have incurred testing costs for water testing in excess of those performed by the EPA. We test monthly or quarterly, depending upon what EPA test results are at their monitoring wells and other parties' wells in the area. Since TCE was detected in the subunit C aquifer earlier this year, we have again increased our testing to ensure the water supplied to our customers is not contaminated. These types of costs are exactly what was anticipated in the accounting order. Indeed, a significant portion of the costs sought for recovery in this case were incurred between the time of notification by the EPA that the Plume had moved (beginning in July 2006) and the time the Accounting Order was granted in September, 2007.

Q. BUT WHY HAVEN'T YOU GONE AHEAD AND FILED SUIT, AS MR. MICHLIK SUGGESTS YOU SHOULD HAVE PER THE ACCOUNTING ORDER?

A. I do not agree that bringing a lawsuit was the only course of action contemplated in the Accounting Order, Decision No. 69912 (September 27, 2007), nor do I think the Commission wants us to file a premature lawsuit.

Q. WHY WOULD IT BE PREMATURE?

A. Because our wells have not yet exceeded the MCL for TCE. Until they do, no legal action can rationally be pursued, other than working with the EPA, Crane,

¹³ Michlik W Dt. at 13:4-15.

and other interested parties like the cities of Goodyear, Litchfield Park, and Avondale, to best address the TCE situation and protect our customers. That is what we have been doing, and the costs we have incurred are those we should now be allowed to recover.

Q. WHAT WOULD IT MEAN IF THE COMMISSION DISALLOWED THESE COSTS?

A. It would indicate that despite the Commission's prior order, the Commission does not view it as reasonable and prudent for us to spend money testing our water to make sure it is not polluted or participating in the legal process that might ultimately lead to damages if our wells are impacted. So we will no longer incur those costs and leave it to others to determine the future of our customers' water supply. I find it difficult to believe this is the result the Commission intends to promote.

III. RUCO ADJUSTMENTS TO RATE BASE

Q. HAVE YOU REVIEWED RUCO'S DIRECT FILING?

- A. I have reviewed the testimony of Matt Rowell and Sonn Rowell, and the testimony of Bill Rigsby on alleged excess capacity. I am also generally familiar with RUCO's recommended cost of capital.
- Q. MR. RIGSBY FILED TESTIMONY ADDRESSING ONE RATE BASE
 ISSUE EXCESS CAPACITY. DOES LPSCO HAVE EXCESS
 WASTEWATER TREATMENT CAPACITY?
 - A. No, Mr. Rigsby's analysis is seriously flawed. The roughly \$36,000 Mr. Rigsby refers to was for a preliminary, high level analysis of costs of plant expansion from 4.1 mgd to 8.2 mgd. Given that our plant flows are at or near 85 percent of our existing physical capacity, this is reasonable and prudent utility planning required by ADEQ. Apparently, Mr. Rigsby thinks that we should have waited until after

we built the additional capacity to do the planning the regulators require. But then, Mr. Rigsby is focused on costs, not the realities of operating a plant like our PVWRF.

Q. WHAT ABOUT MR. RIGSBY'S TESTIMONY THAT THE COMPANY OBJECTED TO DATA REQUESTS REGARDING THIS ISSUE?

A. RUCO was asking for information regarding LPSCO's 8.2 MGD treatment facility. 14 There is no such facility, and that is what we explained in our objections and responses. If RUCO had an issue with the objections and responses to data requests saying we cannot give you information that does not exist or that we do not have, I assume they would have gone to the ALJ. They have shown they know the way to the court already in this case.

Q. WHAT DO YOU MEAN BY THAT STATEMENT MR. SORENSEN?

A. RUCO spent a month fighting with LPSCO over its witness Mr. Rowell's answers to data requests and his deposition. As a result of RUCO's efforts, the Company and its ratepayers incurred several thousand dollars of additional and unnecessary rate case expense.

Q. ARE YOU SUGGESTING THAT RUCO IS NOT ENTITLED TO CHALLENGE DISCOVERY IT OBJECTS TO?

A. No, but I am saying that when there appears to be no basis for the objection, they should stop fighting and wasting everyone's time and money. I am not a lawyer, but I read the Judge's order and agree with him that RUCO's arguments were just "baffling." Our lawyers tried very hard to show them that before the fight went to the Judge, but they seemed to prefer fighting. As a result, we incurred more rate case expense.

¹⁴ Direct Testimony of William A. Rigsby at 5:1-14.

¹⁵ Procedural Order dated November 23, 2009 at 6:6.

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THANK YOU.

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Q. WAS THE PLANT IN VIOLATION?

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No, the PVWRF has never received a NOV, but, while this plant was operating in full compliance, we certainly heard our neighbors' and the Commission's collective voices during the past several years. They said the plant had odors, and it did, like every wastewater treatment facility. There were also a couple of spill incidents in 2007, made worse by operator indifference. In fact, the Commission was so concerned that in Decision No. 69165 issued on December 5, 2006, the Commission ordered LPSCO to resolve the odor issues as a condition of approval for the Company's modified Off-Site Facilities Hook-Up Fee Tariff.

RUCO ALSO RECOMMENDS A \$3.5 MILLION

TO LPSCO'S RATE BASE FOR UPGRADES AND

IMPROVEMENTS MADE SINCE IT WAS ACQUIRED BY ALGONOUIN.

No, and quite honestly, RUCO's position makes me angry. Not just as the

manager of a utility or a businessman, but as a resident of this State. The upgrades

to the PVWRF were made to optimize our ability to treat wastewater and to

improve the lives and properties of the customers living near the plant by reducing

odors coming from an active wastewater plant. If a utility's need for operational

upgrades to improve service to its customers cannot or will not be met by its

owner, then it must be met by someone. In this case, that someone was Algonquin,

which bought LPSCO from Suncor. Mr. Rowell's position, if adopted, would set a

very dangerous precedent. It would tell potential purchasers of struggling utilities

that any investment made post-acquisition to fix the utility will have one-half of the

value confiscated. No purchaser would buy a utility under those circumstances.

And if I were a residential customer in the service area of one of those struggling

utilities, I would be furious, because the problems would never get fixed.

DOES LPSCO AGREE WITH THIS ADJUSTMENT?

upgrades and the Company's "project involving a series of upgrades to the PVWRF." As stated in the October 18, 2007 Staff Report, those upgrades included (1) odor control upgrades, (2) UV disinfection system upgrades, (3) temporary centrifuge system upgrades, (4) influent screening upgrades, (5) tertiary treatment pump stations upgrades, (6) solids handling upgrades, (7) conversion of digesters to sequencing batch reactors, (8) headworks building upgrades, (9) solids handling building upgrades and (10) equalization basin to headwork recycle line. Put simply, the Commission and Staff fully supported the Company's upgrades to the PVWRF to optimize reliability, redundancy and service. Mr. Rowell and his client must not have been aware of these facts.

In that docket. Staff reviewed the Company's proposed odor control

Q. WHY WEREN'T THESE THINGS ADDRESSED WHEN THE ORIGINAL FACILITY WAS CONSTRUCTED?

A. None of us were there so we cannot speak with personal knowledge. What we do know is that, between the time the utility was purchased by Algonquin from the prior owner/developer and the time of the odor issue and spills (June 2007), the load on the system greatly increased due to growth, and residential and commercial development crept much closer to the plant, within 165 feet in fact. These changing circumstances changed the operational paradigm for the Company, and with the urging of the Commission, we undertook the upgrades that Mr. Rowell now proposes to exclude.

 $^{^{16}}$ October 18, 2007 Staff Memorandum at 5, Docket No. SW-01428A-06-0444.

 $^{^{17}}$ *Id*.

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Q. WHAT ABOUT MR. ROWELL'S CLAIM THAT YOU SHOULD HAVE KNOWN ABOUT THE NEED FOR THESE IMPROVEMENTS WHEN ALGONQUIN BOUGHT LPSCO?

First off, since the necessity for optimizing the plant did not become apparent until A. after the purchase, Mr. Rowell's speculation isn't true. Second, we buy a lot of assets that are distressed and then pay to bring them up to an adequate level of service. RUCO's Director, Jodi Jerich, discussed our McLain acquisition in recent testimony before the Commission.¹⁸ Other utilities, such as Global Water, have acquired distressed companies and invested substantial capital to improve and upgrade poorly designed or maintained facilities. ¹⁹ To my knowledge, RUCO has not suggested that such capital investments by other utilities should be reduced from rate base and it is unfair and inconsistent for RUCO to make that suggestion here. Yet, under RUCO's theory in this case, our costs to upgrade the McLain water systems that the prior owner allowed to deteriorate to deplorable conditions should not go fully into rate base. Again, why would we acquire a system or systems that need investment and then make that investment only to earn a return on half of it? We wouldn't, which means that Mr. Rowell's recommendation strongly discourages the very type of investment that his client has testified should be encouraged because it benefits the public.20

Finally, and most importantly, is so what? Mr. Rowell does not claim we acted imprudently, nor does he claim that the plant is not used and useful. What

¹⁸ See Surrebuttal Testimony on Rate Design of Jodi A. Jerich dated August 12, 2009 at 8-10, Docket No. W-01445A-08-0440.

¹⁹ See Direct Testimony of Graham Symmonds dated February 20, 2009 at 2, 17, 30, 35, Docket No. SW-03575A-09-0077, SW-20445A-09-0077.

²⁰ Jerich Surrebuttal Testimony at 8-10, Docket No. W-01445A-08-0440.

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Q. WHAT DO YOU MEAN?

report from McBride.

PVWRF.

To start, Mr. Rowell is not a registered engineer, licensed contractor or certified Α. operator of a wastewater treatment plant. As such, he is self-admittedly not qualified to render any opinions, let alone professional opinions, relating to alleged design problems at the PVWRF. Even worse, Mr. Rowell and RUCO have not consulted any registered engineers regarding the original design and construction of the PVWRF. I also would note that Mr. Rowell has not undertaken the

we knew or didn't know when we bought the stock is totally immaterial to whether

WOULD THAT STILL BE TRUE IF THE 2008 UPGRADES TO PVWRF

WERE THE RESULT OF DESIGN ERRORS IN THE ORIGINAL PLANT,

Yes, although Mr. Rowell has not accurately stated the reasons for the 2008

upgrades or the engineering data pertaining to those upgrades. On page 4 of his

testimony, Mr. Rowell states: "LPSCO indicates that a large investment in plant

was necessary to remedy deficiencies at the PVWRF." Mr. Rowell then references

excerpts from page 7 of my direct testimony and a McBride Engineering Solutions,

Inc. draft report that Mr. Rowell claims "documents several design problems at the

PVWRF that resulted in excessive odors, insufficient reliability and lack of

redundancy capability." Mr. Rowell goes on to conclude that "the information

provided by LPSCO indicates that there were significant design problems at the

Mr. Rowell patently misstates my testimony and misconstrues the engineering

Correcting these problems necessitated significant upgrades."21

we get a return on and of investment in used and useful plant.

AS MR. ROWELL SUGGESTS?

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²¹ M. Rowell Dt. at 4.

necessary professional analysis of the design issues, such as reviewing the original design plans and report prepared by Pacific Advanced Civil Engineering ("PACE"), reviewing the applicable regulatory requirements, engineering standards and construction codes applicable to the plant as designed and constructed in 2001 and 2002, and discussing any operational issues regarding the plant with management personnel. At his deposition, Mr. Rowell admitted that he never even bothered to review the original Phase I Design Report prepared by PACE.

In short, all Mr. Rowell did was read limited portions of my direct testimony and excerpts from McBride's draft engineering report, and then misconstrued and took those statements out of context to support RUCO's desire to lower our rates by taking away used and useful plant. What is even more troubling is RUCO's attempt to use an economist to establish design and engineering errors in the PVWRF as originally constructed.

Q. DID YOU SUGGEST THAT WERE DESIGN ERRORS IN PVWRF AS ORIGINALLY DESIGNED AND CONSTRUCTED?

A. No. On page 7 of my testimony, I simply referenced operational challenges with the plant that had arisen in 2006-2007. My testimony speaks for itself and I did not say there were any design errors in the plant:

The PVWRF was originally constructed in 2002 and 2003.²² It was financed initially with \$7.5 million of 6.7 percent debt, with the remainder of the approximate \$18 million cost financed with equity. The construction was completed just prior to the purchase of LPSCO by Algonquin. The plant is located on the north side of McDowell Road, about 1/4 mile west of Litchfield Road in Goodyear, Arizona. The PVWRF is currently permitted to process up to 4.1 MGD of sewage.

²² Mr. Sorensen's direct testimony indicates that the PVWRF was originally constructed in 2002 and 2003. That is a mistake. The PVWRF was constructed in 2001 and 2002.

The facility possesses an APP limited to 8.2 MGD for that The original plant utilized an anoxic tank, two SBR tanks, a surge tank and ultraviolet ("UV") disinfection to produce A+ effluent and class A sludge. When the PVWRF was designed and constructed, it received a setback variance from the City of Goodyear and in turn ADEQ allowed an odor easement of only 150 feet instead of the now minimum 350 feet. At that time the land use for the area surrounding the plant was a small golf course with commercial office buildings proposed....Needless to say, this created some new operational challenges for the Company. In 2006 and 2007, customer of complaints, series investigations and Commission proceedings, it became apparent that given the siting of the plant and the changed zoning, the Company had an odor problem that needed to be addressed. Additionally, in the summer of 2007, the plant had two spill events that confirmed that the plant, as originally designed and constructed by our predecessor owners, was lacking certain redundancy capabilities and needed some upgrades to achieve an acceptable level of reliability.

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AS ORIGINALLY DESIGNED AND CONSTRUCTED, DID PVWRF MEET Q. ALL APPLICABLE ENGINEERING STANDARDS, CONSTRUCTION CODES AND REGULATORY REQUIREMENTS?

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Yes, as originally designed and constructed, the plant met all applicable Maricopa Α. County Environmental Services Department, ADEQ and other regulatory standards, regulations and approval. In fact, the plant engineering and construction was reviewed, analyzed and approved by Maricopa County Environmental Services Department and ADEQ. The plant was engineered by Pacific Advanced Civil Engineering (PACE), a respected and qualified engineering firm. In October 2001, PACE prepared a Phase I Design Report for the PVWRF. On page 7 of that report, PACE stated:

> The design and construction of the Palm Valley WRF Phase I will be in conformance with the following codes:

²³ Sorensen Dt. at 6-7.

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- MAG Uniform Details and Standard Specifications for Public Works Construction 1998
- City of Goodyear Engineering Standards and Policies Manual
- ADEQ Engineering Bulletin 11 1978
- Uniform Building Code (UBC) 1997
- Uniform Plumbing Code (UPC) 1997
- Uniform Fire Code Latest Edition²⁴

Not only was the plant designed in accordance with applicable codes, but both Maricopa County and ADEQ reviewed the engineering and inspected construction of the plant, ultimately approving the plant. On these issues, Mr. Rowell simply does not have any basis for challenging the Phase I Design Report prepared by PACE, which was stamped by a registered engineer named James A. Matthews.

Q. WHAT WAS MCBRIDE ENGINEERING'S INVOLVEMENT ON THE PVWRF AND THE 2007/2008 UPGRADES?

A. After the plant operational challenges arose in 2006, LPSCO retained McBride Engineering Solutions to evaluate operational challenges at the Palm Valley Plant, and to engineer certain upgrades and improvements to the plant. We did not retain McBride to re-engineer or re-design the plant, or to correct any design errors in the plant, we hired McBride to evaluate various operational challenges at the plant, including odor problems. In March of 2007, we selected McBride to design process performance enhancements and improvements to the odor control system and the operation of the plant.

²⁴ Phase I Design Report dated October 2001 at 7.

Q. WHAT DID MCBRIDE RECOMMEND?

A. McBride conducted a review of the original designs, process and capacity studies, interviewed LPSCO's operations staff and reviewed the various operational challenges at the plant. McBride then provided a draft Water Reclamation Facilities Strategic Planning Report to "show target areas where improvements could be made to enhance the overall operation, reliability and costs effectiveness of the plant." In that report, McBride provided various options for upgrading and improving the plant to enhance operations, improve reliability and make the plant more cost effective.

Q. DID MCBRIDE OPINE THAT THERE WERE ANY DESIGN ERRORS IN THE ORIGINAL PLANT?

A. No. In the Evaluation Report, McBride documented various operational challenges at the plant. The report focused on various options for adding additional facilities and processes to the plant to resolve the operational challenges.

Q. WERE THOSE 2007/2008 UPGRADES CAUSED BY DESIGN ERRORS IN THE ORIGINAL PLANT?

A. No. Those 2007/2008 upgrades were improvements to the plant's system and redundancy capabilities. Essentially, they were additions to the plant to optimize performance, not repairs or remedies for any design problems.

Q. DO THESE IMPROVEMENTS BENEFIT RATEPAYERS?

A. Yes. Those upgrades resolved various operational problems with the plant that had arisen since commissioning in 2002. This type of situation is typical in the utility industry. In many cases, a wastewater treatment plant will be constructed in accordance with approved engineering plans, but the plant will face operational

²⁵ Draft Water Reclamation Facilities Strategic Planning Evaluation Report at 4.

challenges as the plant is operated at or near full capacity over several years. LPSCO should be applauded for making the investment, albeit with some strong nudging from the Commission, in necessary upgrades and additions to correct operational challenges at the facility and provide a better long-term solution for utility customers.

- Q. ON PAGE 7 OF YOUR DIRECT TESTIMONY, YOU REFERENCED TWO SPILL EVENTS IN 2007, WHICH CONFIRMED THE PLANT WAS LACKING CERTAIN REDUNDANCY CAPABILITIES AND NEEDED SOME UPGRADES TO ACHIEVE AN ACCEPTABLE LEVEL OF RELIABILITY. WHAT DID YOU MEAN BY THAT STATEMENT?
- A. I was referring to two spill events at PVWRF, which occurred in 2007. On June 20, 2007, we had a 500 gallon spill due to disc filters being clogged and the failure of the SCADA system to notify operators of high flow levels. On June 21, 2007, we had a 25,000 gallon spill due to grease and oil build up in the disc filters at PVWRF. On that spill, we also had a plant operator who failed to respond. Those spills were not the result of any design errors in the original plant, they were the result of operational improvement opportunities made evident by increased flows at the plant and challenges associated with operating the plant as it neared full capacity.

In my testimony, I was pointing out that the plant needed additional redundancy capabilities and upgrades to improve reliability as we reached higher flows at the plant. Those upgrades were not necessary because of design errors in the plant, but because of increased customer demand and various changed conditions that were not present when the plant was constructed originally, including changed zoning requirements, in-fill residential development, and increased customer demands for more odor controls.

Q. HOW DID THE COMPANY RESPOND?

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As noted in my direct testimony, the Company responded by spending A. \$7,000,000 in upgrades to improve PVWRF, including approximately digestion (i) converting aerobic tank to a third SBR tank an maintenance/redundancy purposes; (ii) converting the anoxic tanks to equalization basin; (iii) improving influent screening; (iv) adding a surge tank return line; (v) installing additional and better UV disinfection equipment; (vi) adding another dewatering centrifuge; (vii) upgrading and adding electrical service to account for increased loads; and (viii) adding new odor control devices at the plant.

Put simply, the 2008 upgrades were intended to increase reliability and add redundancy to the Plant. For example, we converted existing digesters at the plant into SBRs, which increased the number of SBRs at the plant to help to increase operational reliability. I also can't stress enough that the need for upgrades or improvements to a sewer plant often occurs after the plant has been in operation for awhile, which is what happened at PVWRF.

- Q. ON PAGE 5 OF HIS TESTIMONY, MR. ROWELL STATES "UTILITIES HAVE AN OBLIGATION TO DESIGN AND BUILD PLANT THAT MEETS ACCEPTABLE LEVELS OF RELIABILITY. IT IS INHERENTLY UNFAIR TO SADDLE CUSTOMERS WITH THE EXCESS AND DUPLICATIVE COSTS THAT RESULT WHEN UTILITIES FAIL IN THAT OBLIGATION." WERE LPSCO'S CUSTOMERS SADDLED WITH ANY INCREASED OR DUPLICATIVE COSTS?
- A. No. Again, we obtained all necessary approvals. Moreover, the 2007/2008 upgrades resulted in various upgrades being added to the plant, which means that customers were not previously charged for those upgrades. In fact, the PVWRF

was not put into rate base before this rate case, and customers have not incurred any costs yet, additional or otherwise. If LPSCO had opted to add all of those upgrades in 2001-2002, customers still would have had to bear the costs of those facilities and upgrades to the plant in the original cost of the plant.

What RUCO and Mr. Rowell are actually suggesting is that customers are harmed by the installation of facilities designed to reduce odors and noise and/or to improve system reliability if they don't pay for those facilities at the time of initial construction. Obviously, this is absurd. The real harm here would be to LPSCO if RUCO's recommendation were adopted and LPSCO punished with the outright taking of \$3.5 million of used and useful plant.

Additionally, one should consider the alternative scenario. If we had put the 2007/2008 upgrades into the plant in 2001/2002, then someone may have contended that those improvements were not necessary at that time because the various changed circumstances and operational challenges did not occur until after 2002. Had we put those upgrades in place in 2001-2002, we likely would have come in for a rate case much earlier than 2008, and the upgrades would have been made but never truly needed at that time. In the real world, what was done is the Company waited until a situation arose whereby the clear need for the improvements arose, and we made those improvements. One could argue that we made them a year later than we should have, but they were made prudently, and those improvements are now used and useful in the provision of service to our customers.

Q. LIKE STAFF, RUCO ALSO RECOMMENDS AN ADJUSTMENT TO THE CENTRAL OFFICE COSTS ALLOCATED AS PART OF YOUR SHARED SERVICES MODEL. DO YOU WANT TO ADDRESS RUCO'S POSITION AS WELL?

A. Yes. I believe the starting point is that RUCO has not taken a consistent position on the Central Office cost allocation. In the pending rate case for BMSC, RUCO did not challenge the allocations, which used the same cost pool and methodology as in this case. I cannot explain this obvious inconsistency, but I can testify that Mr. Rowell's testimony is flawed in several ways.

First, Mr. Rowell admits that the costs provided by Liberty Water are necessary for the provision of service, but that the reconciliation to the 4 factor methodology should be disallowed.²⁶ During the test year, the Company changed its methodology on charging Liberty Water, then AWS, costs to the utilities. The 4 factor methodology, which was in use by the end of the test year, was the one that was used for our reconciliation. It is illogical to accept the costs and the methodology, but not to accept the true-up. This was clearly explained to Mr. Rowell in Company response MJR 2.4.²⁷ At his deposition, Mr. Rowell further acknowledged that it would be appropriate for LPSCO to reconcile and true-up the calculation of the 4 factor methodology.

Second, Mr. Rowell argues that the costs allocated from APT don't match the costs provided in discovery response JMM 5.3.²⁸ This is because he is comparing the actual charges for the test year (which encompasses 2007 and 2008)

²⁶ M. Rowell Dt. at 11-12.

²⁷ Data request responses referenced herein are not attached, however, copies were provided to Staff, RUCO, and the other intervenors who requested them.

²⁸ M. Rowell Dt. at 13.

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versus the budget amount for calendar 2008, which was included in the initial filing. Mr. Bourassa addresses this issue in volume 1 of his rebuttal.

Q. WHAT ABOUT THE INCREASE TO MANAGEMENT FEES THAT MR. ROWELL CLAIMS WAS NOT EXPLAINED?

A. The management fee that was in place prior to 2008 was the allocation of corporate administration costs based on 2003 estimates. The allocation had never been changed for all years until January of 2008, and had never been trued-up to actual costs, but obviously should have been done each year. However, the fact that operating costs incurred prior to the test year were not trued-up has no bearing on the actual operating costs in the test year itself. The Company is now looking at reviewing its corporate allocation of administration costs on a quarterly or yearly basis.

Additionally, on page 13 of his testimony, Mr. Rowell refers to "Management Fees." The costs he refers to are actually a myriad of Central Office Administration costs that are incurred, including those for trustee fees, management fees, unit holder communications, other professional services (i.e. maintenance of the ERP system), general office costs, public registrant fees, and depreciation expense. The monthly invoice from APT to LPSCO may have said "Management Fees," but that was only for the sake of brevity.

Q. THANK YOU, PLEASE CONTINUE WITH YOUR DISCUSSION OF THE FLAWS IN MR. ROWELL'S POSITION.

A. Third, Mr. Rowell argues that the cost pool definitions are vague.²⁹ In Company responses MJR 2.4 and MJR 2.5, we gave clear definitions of the cost pools and what types of costs go into each one. For example, Tax Services are clearly

²⁹ M. Rowell Dt. at 13.

LPSCO. Audit costs are clearly defined as costs required to provide audit services to APIF/APT, and in turn, LPSCO. LPSCO, which has bonds issued, must have audits conducted, in addition to it simply being a good business practice for an entity of LPSCO's size. Of course, LPSCO obtained audit services at a reduced price as part of the APIF family. If Mr. Rowell had specific concerns, he was certainly free to ask additional questions on any of the cost pools after we provided this information. Instead, he chose simply to disallow all costs he felt he did not understand.

defined as tax planning and preparation services required for Liberty, and in turn,

Q. DO YOU AGREE THAT IT IS THE COMPANY'S BURDEN TO SUPPORT ITS COSTS?

A. Yes, and I believe we have. Unknown person-hours have been spent compiling information and answering data requests by Staff and RUCO, in this case and in each of the pending rate cases involving a Liberty Water affiliate. There are hundreds to thousands of pages of documents involved here and we are willing to do more. Still, based upon his deposition, Mr. Rowell still seems to be suffering some ongoing misunderstanding of the Central Costs, their nature, their benefit to ratepayers, their allocation methodology, and the detriment that would be suffered by the Company and the Company's ratepayers if these costs and their underlying services are eliminated in this case.

As such, the Company will update some prior data requests from RUCO related to the Central Office Costs to help clarify the costs, benefits, and allocation process, so that confusion or perceived lack of information doesn't prevent the inclusion of these needed costs. Additionally, Mr. Rowell and Staff's witnesses are welcome to spend time in our offices here and in Oakville, Ontario, where we will fly them there and put them up at our own expense to the extent allowed to do so

under applicable rules and policies. In the end, we can and will, if allowed, continue our efforts to educate them, because we certainly have nothing to hide. But we can't be expected to guess at what else RUCO's and Staff's witnesses think they need to scrutinize our costs.

Q. THANK YOU. ARE THERE ANY OTHER FLAWS IN MR. ROWELL'S TESTIMONY YOU WOULD LIKE TO ADDRESS?

- A. Next, Mr. Rowell mentions that we do not have and do not plan to have an allocation manual.³⁰ While this has not precluded us from providing everything asked for in discovery, it is a good suggestion and we are undertaking to do so. Hopefully enough of our process will remain after these rate cases for the manual to be useful.
- Q. WHAT ABOUT MR. ROWELL'S ASSERTIONS ABOUT RELATED PARTIES AND APT'S ABSENCE ON ALGONQUIN'S CORPORATE STRUCTURE?
- A. Mr. Rowell asserts that Algonquin Power Property Limited Partnership ("APPLP") is an affiliate likely based on the common term "Algonquin." APPLP owns the corporate office located at 2485 Bristol Circle in Oakville, Ontario, which is partially rented by Liberty Water. The building is leased at prevailing market rates and a formal lease arrangement exists between APPLP and APT.

Further, Mr. Rowell attests that the organization chart the Company provided is incorrect because it does not show Algonquin Power Trust (APT) on it.³² While APT is not shown as a box on the chart, the narrative description to Company response 1.17 clearly states "...LPSCO is directly owned by Algonquin

³⁰ M. Rowell Dt. at 14.

³¹ M. Rowell Dt. at 14.

³² M. Rowell Dt. at 14.

Water Resources of America which is ultimately owned by Algonquin Power Income Fund. Direct day to day operations are provided by Algonquin Water Services, limited engineering services are provided by Algonquin Power Systems, and administration support is provided by Algonquin Power Trust."

- Q. OKAY, SWITCHING GEARS NOW, RUCO ALSO RECOMMENDS A SUBSTANTIAL INCREASE IN THE RATE FOR EFFLUENT. DO YOU BELIEVE THAT WOULD BE IN THE PUBLIC INTEREST?
- A. Not if the increased rate discourages use of effluent, something RUCO did not evaluate. Absent evidence otherwise, I believe the significantly higher price RUCO recommends will decrease the usage significantly, thus increasing the use of groundwater for irrigation and our costs for disposal, assuming we can even dispose of all the effluent without our usual buyers. Such costs outweigh the short-term benefit of shifting recovery of the revenue requirement away from our residential customers and towards our effluent users. It must be remembered, they provide us a service too disposal of the huge amounts of effluent we produce running a plant that treats some 4 million gallons of wastewater per day.

Q. SO WHAT DOES LPSCO RECOMMEND?

A. The Company's current tariff allows for "market rates" to be charged. This allows the Company to increase the effluent rates more slowly, responding to market conditions, without discouraging the use of effluent. We do not think this should be changed in this rate case.

IV. REBUTTAL TO INTERVENORS PEBBLECREEK AND CITY OF LITCHFIELD PARK

Q. ARE YOU FAMILIAR WITH THE DIRECT FILINGS MADE BY THE CITY AND PEBBLECREEK AS INTERVENORS?

Α. Yes, although I will confess I did not review every word of Mr. Zeblisky's drawnout and self-serving attempt to reconstruct ancient developer history because most of his direct testimony deals with hook-up fees and his developer client's request for special treatment. Those issues will now be dealt with in Phase 2 of this rate case. I also did not carefully analyze the City's witness Mr. Darnall's discussion of Mr. Bourassa's cost of service study, as I left that to Mr. Bourassa to address. But I was forced to become very familiar with those aspects of both Mr. Darnall's and Mr. Zeblisky's testimony that I address in my rebuttal below.

Ο. WHY DO YOU SAY "FORCED" MR. SORENSEN?

A. Unfortunately, it appears that both PebbleCreek and the City have chosen to engage in the same tactic of attack in order to get what they want. As a result of these tactics, I am forced to provide LPSCO's response.

Rebuttal to PebbleCreek on Rate Base.

CAN YOU PROVIDE AN EXAMPLE OF WHAT YOU MEAN? Q.

Yes. PebbleCreek has intervened to "challenge the hook up fees" requested.³³ We A. have no issue with the intervention on those grounds, although Mr. Zeblisky's testimony seems to go well beyond what is necessary to do so. We do take serious issue with Mr. Zeblisky's recommendation that the Commission go outside the test year to bring in over \$4.8 million of advances that was part of the Westcor/LPSCO

³³ Zeblisky Dt. at 3.

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25 26 settlement agreement before the Commission in October 2008.³⁴ This adjustment is not material to the hook-up fee PebbleCreek sought to challenge, but it is material to LPSCO as it would result in a confiscation of more than \$4.8 million of rate base.

WHY IS THAT? Q.

Because we received an advance in aid of construction from Westcor of A. approximately \$4.8 million dollars shortly after we settled and received the necessary Commission approval, and then shortly thereafter, Westcor postponed the project for several years. Now there is no plant to go into Plant in Service to offset the \$4.8 million Mr. Zeblisky wants deducted from rate base, meaning \$4.8 million of used and useful plant funded by the shareholder will be deducted. LPSCO will not allow that to happen.

0. HOW CAN YOU PREVENT IT?

We are in the process of returning Westcor's advance in aid of construction in the A. amount of over \$4.8 million. We simply cannot take the risk that the unanticipated delay in their project will cost us \$4.8 million of rate base because the Commission saw fit to adopt PebbleCreek's suggestion.

THE MONEY HAS NOT YET BEEN RETURNED? Q.

No, we wanted to first evaluate the impact of doing so in light of the settlement Α. agreement with Westcor and the Commission order. We also felt that we should discuss the matter with Westcor and let them know how PebbleCreek's intervention may cost them more for sewer capacity sometime in the future. We intend to return their money by the time we make our rejoinder filing in this matter.

³⁴ Westcor/Goodyear, L.L.C. and Globe Land Investors, L.L.C. v. Litchfield Park Service Company, Decision No. 70563 (October 23, 2008).

Q. BUT WON'T THAT BE OUTSIDE THE TEST YEAR?

A. Yes, as was the acceptance of the advance from Westcor in the first place. If we can lose rate base for accepting an advance pursuant to a settlement outside the test year, then we must be allowed to avoid the taking of our property by making another known and measurable change outside the test year.

Q. SHOULD THE COMMISSION ADOPT MR. ZEBLISKY'S RECOMMENDATION?

- A. No, I think it would be inequitable to punish us for settling a case with a developer that was in a hurry to build a very large regional development project supported by the City of Goodyear because after the settlement the developer unilaterally postponed the project. In fact, this position is now discouraging the Company from collecting funds from developers to build future plant needed for their developments. Again, I believe this type of position to be very short-sighted and discourages the type of "growth pay for growth" strategy that I believe this Commission encourages.
- Q. IF LPSCO BELIEVES IT WOULD BE INEQUITABLE TO GRANT THE RELIEF MR. ZEBLISKY RECOMMENDS, WHY GIVE WESTCOR THE MONEY BACK?
- A. Because we simply won't take the risk that the Commission will adopt PebbleCreek's recommendation as a means of lowering our revenue requirement by taking away \$4.8 million of rate base.

B. Rebuttal to City of Litchfield Park

Q. WHY HAVE YOU INCLUDED THE CITY IN YOUR CRITICISM?

A. On his way to addressing two issues fairly raised in this rate case, the City's hired expert, Mr. Darnall, takes a shotgun approach to attacking LPSCO. He throws out a rash of conclusory and unsupported statements about our operations and our

motives, but none of these issues is germane to what appears to be the City's real goal – a special municipal rate for water.³⁵ This type of "throw it up and hope it sticks" tactic just exacerbates rate case expense and distracts the focus from real issues.

Q. CAN YOU PROVIDE AN EXAMPLE OF WHAT YOU MEAN, MR. SORENSEN?

A. Mr. Darnall admits that he did not do a comprehensive review of LPSCO, nevertheless, he tosses out 9 issues that he suggests could impact the reasonableness of rates and therefore warrant close examination by the Commission. Perhaps Mr. Darnall should have done the comprehensive analysis first. His testimony, which implies that we are doing something wrong by finally seeking the opportunity to earn a just and reasonable return on the tens of millions of dollars we have invested in Arizona, is ludicrous and a waste of everyone's time, unless he is going to do the analysis he claims needs to be done, and which must be done if his aspersions are to be validated.

For instance, had he conducted a thorough analysis, he might not have criticized us for having several rate cases pending. Apparently, Mr. Darnall is unaware that the rate cases for the two Sunrise water companies were ordered by the Commission after we took over the disaster formerly known as the McLain companies. He also appears unaware that Bella Vista Water Company filed at the same time, also with the Commission's blessing, so that we can seek the consolidation of the three companies, hopefully removing the memory of the McLain water systems.

³⁵ Direct Testimony of Richard L. Darnall ("Darnall Dt.") at 7.

³⁶ Darnall Dt. at 2-3.

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Likewise, Mr. Darnall does not seem to be aware that the rate increases he criticizes for Gold Canyon Sewer Company represented primarily a return on and of more than \$10 million dollars of plant investment this Commission already found prudent and reasonable, or that the pending rate increases for BMSC are largely the result of Commission ordered plant improvements to make life better for our customers in that system. With regard to Rio Rico Utilities, I also don't find it very honest to criticize the requested rate increase for water service but not mention the pending rate decrease we voluntarily sought for sewer service at the same time.

Put bluntly, we have made substantial investment in every system Liberty Water owns in this State, and we are providing a high level of safe and reliable service everywhere we operate. We shouldn't have to explain to Mr. Darnall or this Commission why we now want the opportunity to recover our operating expenses and earn a return on and of our substantial investment, as we are entitled to do under the law.

Q. THANK YOU MR. SORENSEN. TURNING BACK TO THIS RATE CASE THOUGH, WHY DIDN'T LPSCO COME IN SOONER?

Algonquin, now Liberty Water, acquired this system in February 2003. Commencing in 2005, we began investing millions of dollars to improve the water and wastewater utility systems, largely by completing projects that were planned and in some cases underway, and by installing facilities to meet the new federally mandated arsenic standards. It took us a little while to get grounded and figure out what order to tackle the system's needs. I guess we could have filed one or more rate case(s) in the midst of that, and then spent hundreds of thousands of dollars fighting over CWIP, used and useful, excess capacity and operating expenses that don't match plant. Instead, we accepted the carrying costs in this situation and

came in when we felt like we had completed the compelling list of necessary projects we purchased with the system.

Q.

SO THE SHAREHOLDER KNEW THAT IT WOULD HAVE TO MAKE SUBSTANTIAL INVESTMENT WHEN IT ACQUIRED LPSCO?

A. Sure, it did its due diligence as I discussed above. And the shareholder was interested in investing capital in Arizona at the time and earning a return on and of that capital. Despite Mr. Darnall's implication, that is all we are asking for now, for LPSCO and all the other places where we have invested capital to dramatically improve the service received by ratepayers.

Q. WHAT ABOUT MR. DARNALL'S SUGGESTION THAT THE COMMISSION APPROVE A "MUNICIPAL RATE"?

A. If this is all the City wanted, it would have been nice if it just said so instead of hiring an expert to cast admittedly unsupported aspersions about what is wrong with our rate filing and entire operations here in Arizona. But it is also difficult to take any of the requests in Mr. Darnall's testimony seriously, given that he did not undertake a comprehensive review of the application, nor does he even suggest what this municipal rate should be or how it should be derived. I also hope that Mr. Darnall and his client realize that the special municipal rate they desire will come at the cost of their citizens, as they would be asked to subsidize the special rate the City wants.

Q. DOES LPSCO OPPOSE A MUNICIPAL RATE?

A. Not in theory. If the Commission believes that our ratepayers should subsidize the City's purchases of water for municipal purposes, then a municipal rate can be approved. It just means that we will collect more of the revenue requirement from the rest of our customers, as we would expect the subsidy of municipal water use to be shared equally among all customer classes.

Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

A. Yes.

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6	BEFORE THE ARIZONA COR	PORATION COMMISSION
7		
8	IN THE MATTER OF THE APPLICATION	DOCKET NO: SW-01428A-09-0103
9	OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA	
10	CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE	
11	OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN	
	ITS WASTEWATER RATES AND CHARGES FOR UTILITY SERVICE	
12	BASED THEREON.	
13	IN THE MATTER OF THE APPLICATION	DOCKET NO: W-01427A-09-0104
14	OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA	
15	CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE	
16	OF ITS UTILITY PLANTS AND	
17	PROPERTY AND FOR INCREASES IN ITS WATER RATES AND CHARGES FOR	
18	UTILITY SERVICE BASED THEREON.	
19	IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE	DOCKET NO. W-01427A-09-0116
20	COMPANY, AN ARIZONA	
	CORPORATION, FOR AUTHORITY (1) TO ISSUE EVIDENCE OF	
21	INDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,755,000 IN	
22	CONNECTION WITH (A) THE CONSTRUCTION OF TWO RECHARGE	
23	WELL INFRASTRUCTURE IMPROVEMENTS AND (2) TO	
24	ENCUMBER ITS REAL PROPERTY AND	
25	PLANT AS SECURITY FOR SUCH INDEBTEDNESS.	
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1		TABLE OF CONTENTS
2		
3	I.	INTRODUCTION AND QUALIFICATIONS
4	II.	SUMMARY OF TESTIMONY
5	III.	TESTIMONY
6		
7	2262582.1	t.
8		
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FENNEMORE CRAIG A Professional Corporation Phoenix

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1	IN THE MATTER OF THE APPLICATION DOCKET NO. W-01427A-09-0120 OF LITCHFIELD PARK SERVICE				
2	COMPANY, AN ARIZONA				
3	CORPORATION, FOR AUTHORITY (1) TO ISSUE EVIDENCE OF				
4	ÍŃDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,170,000 IN				
5	CONNECTION WITH (A) THE CONSTRUCTION OF ONE 200 KW ROOF				
6	MOUNTED SOLAR GENERATOR INFRASTRUCTURE IMPROVEMENTS				
7	AND (2) TO ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY				
8	FOR SUCH INDEBTEDNESS.				
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11	REBUTTAL TESTIMONY				
12	OF				
13	BRIAN MCBRIDE				
14	(Phase One – Determination of Rate Base and Rates)				
15	December 2, 2009				
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FENNEMORE CRAIG
A Professional Corporation
Phoenix

I. <u>INTRODUCTION AND QUALIFICATIONS</u>

- Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- A. My name is Brian McBride. My business address is 6100 W. Gila Springs Place,
 Suite 7, Chandler, AZ 85226.
- 5 Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?
- 6 A. I am providing this rebuttal testimony on behalf of Litchfield Park Service Company ("LPSCO" or "Company").
 - Q. WHO IS YOUR CURRENT EMPLOYER AND WHAT DO YOU DO?
 - A. I am the co-owner and principal engineer for McBride Engineering Services.
 - Q. WHAT ARE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL QUALIFICATIONS?
 - I received a B.S. degree from Drexel University in 1990 in Commerce and Engineering. I then received B.S. and M.S. degrees from Drexel University in Civil Engineering (Environmental). I am a registered Civil Engineer in the state of Arizona, and I have maintained that registration since 1999. From 1996-2000, I worked for Greeley Hansen Engineers as an EIT and then project manager. From 2000-2003, I worked for Damon S. Williams Associates as a senior project In August 2003, my wife and I started McBride manager and associate. Engineering Solutions ("MES"), and I have been the principal engineer for MES since 2003. I have over 13 years of professional experience as a civil engineer specializing in wastewater and water engineering projects, including program and project management, start up and commissioning assistance, detailed design and engineering, construction services and engineering studies in the water and wastewater fields. My experience includes design and management of water and wastewater facilities, reservoirs, pump and lift stations, recharge sites, valve stations, pipelines, and solids handling facilities. I have performed engineering and

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design studies relating to treatment facility plants, feasibility studies, facility/collection master plans, process alternative analyses, site location studies, reuse system planning, residual impacts, influent design parameter studies, effluent disposal alternatives and bio solids handling alternatives.

Q. HAVE YOU PREVIOUSLY PROVIDED TESTIMONY BEFORE THE ARIZONA CORPORATION COMMISSION?

A. No, this is the first time I have submitted testimony in a case before the Corporation Commission.

II. SUMMARY OF TESTIMONY

O. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

A. In my testimony, I respond to the direct testimony of Matt Rowell submitted by RUCO relating to alleged design errors at the Palm Valley Water Reclamation Facility ("PVWRF"). Specifically, I have reviewed pages 1-5 of Mr. Rowell's direct testimony relating to alleged design errors in the PVWRF as originally constructed and engineered in 2001-2002. In my rebuttal testimony, I address Mr. Rowell's unsupported conclusions that there were design errors in the plant as engineered and constructed in 2001-2002. My testimony focuses on my area of expertise relating to civil engineering.

III. <u>TESTIMONY</u>

Q. PLEASE EXPLAIN.

A. On page 4 of his testimony, Mr. Rowell states: "LPSCO indicates that a large investment in plant was necessary to remedy deficiencies at the PVWRF." Mr. Rowell then references excerpts from Greg Sorensen's direct testimony and the "Litchfield Park Service Company Water Reclamation Facilities Strategic Planning Evaluation Report" prepared by MES relating to the PVWRF. Based on his reading of those documents, Mr. Rowell testifies that there were "several design

problems at the PVWRF that resulted in excessive odors, insufficient reliability and lack of redundancy capability." Mr. Rowell then goes on to conclude that "the information provided by LPSCO indicates that there were significant design problems at the PVWRF. Correcting these problems necessitated significant upgrades."

Q. DO YOU AGREE WITH MR. ROWELL'S TESTIMONY?

- A. Not at all. To start, Mr. Rowell is not a registered engineer, licensed contractor or certified operator of a wastewater treatment plant. As such, he is not qualified to render any opinions, let alone professional opinions, relating to supposed design problems at the PVWRF. I also would note that Mr. Rowell has not undertaken the necessary professional analysis of the design issues, such as reviewing the original design plans and report prepared by Pacific Advanced Civil Engineering ("PACE"), reviewing the applicable regulatory requirements, engineering standards and construction codes applicable to the plant and discussing any operational issues regarding the facility. All Mr. Rowell has done is read limited portions of Mr. Sorensen's direct testimony and excerpts from our draft engineering report.
- Q. IN YOUR PROFESSIONAL OPINION, WERE THERE ANY DESIGN ERRORS WITH THE ORIGINAL PALM VALLEY WATER RECLAMATION FACILITY AS DESIGNED AND CONSTRUCTED IN 2001-2002?
- A. No. As originally designed and constructed, the PVWRF met applicable engineering and regulatory standards, regulations and approval requirements. In fact, the plant engineering and construction were reviewed, analyzed and approved by the Maricopa County Environmental Services Department ("MCESD") and Arizona Department of Environmental Quality ("ADEQ"). The plant was

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engineered by Pace Advanced Civil Engineering. I have reviewed PACE's Phase I Design Report dated October 2001, and the plant was designed in accordance with the MAG Uniform Details and Standard Specifications for Public Works Construction (1998), the City of Goodyear Engineering Standards and Policy Manual, ADEQ Engineering Bulletin 11 (1978) and applicable building codes. As originally engineered and constructed, the PVWRF met applicable engineering requirements and I am not aware of any errors as alleged by Mr. Rowell, an economist.

Q. WHAT WAS YOUR INVOLVEMENT RELATING TO THE 2007/2008 UPGRADES INSTALLED AT THE PVWRF?

Liberty Water and LPSCO retained MES to evaluate operational challenges at the A. PVWRF that had occurred after commissioning in 2002. LPSCO retained MES to engineer certain upgrades and improvements to the plant in order to optimize The PVWRF is a 4.1 mgd operations and wastewater service to customers. wastewater treatment plant that produces high quality effluent water (Class A+). We also were hired to conduct a study of the existing facilities at the PVWRF and to recommend strategic options for optimizing treatment, operations, reliability and redundancy capabilities for the plant. In turn, we reviewed the design documents, process capacity studies, operations information, and we conducted interviews with LPSCO's engineers and operations staff, and we consulted manufacturers and process equipment experts. MES provided the LPSCO Water Reclamation Facilities Strategic Planning Evaluation Report, which described the operational challenges at the plant and showed target areas for improvements and upgrades to the plant.

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Q. IN HIS TESTIMONY, MR. ROWELL SUGGESTS THAT YOUR EVALUATION REPORT DEMONSTRATES DESIGN ERRORS IN THE PVWRF AS ORIGINALLY CONSTRUCTED. DO YOU AGREE?

- A. No, Mr. Rowell mischaracterizes the Evaluation Report. That report focuses on operational challenges with the plant and necessary upgrades to the plant to optimize plant operations, treatment, reliability and service. We did not state that there were any design errors in the PVWRF as originally engineered and built in 2001-2002. As I noted above, the plant as originally engineered in 2001-2002 met applicable engineering and regulatory requirements.
- Q. WERE THE 2007/2008 UPGRADES TO THE PVWRF CAUSED BY DESIGN ERRORS IN THE ORIGINAL PLANT?
- A. No. Those 2007/2008 upgrades increased the plant's reliability and redundancy capabilities in order to optimize plant operations and service. Essentially, they were additions to the plant, not fixes. Specifically, in 2007 and 2008, LPSCO made various improvements to the PVWRF, including converting an existing aerobic digestion tank to a third SBR tank, converting the anoxic tanks to an equalization basin, improving influent screening, adding a surge tank return line, installing improved UV disinfection equipment, adding a dewatering centrifuge, and adding a new odor control system to the plant. Those 2007/2008 upgrades resolved various operational challenges with the plant that had arisen since commissioning in 2002. This type of situation is not unusual.

Often, a wastewater treatment plant will be constructed in accordance with approved and appropriate engineering plans, but the plant will face operational challenges as the facility is operated over several years. I commend LPSCO for investing in upgrades and additions to correct operational challenges at the facility and provide a better solution for utility customers.

Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

A. Yes, although I do wish to note that I was engaged by LPSCO to address one specific issue in this case; my silence on any other plant or engineering issue does not necessarily suggest my agreement. Instead, I just have not evaluated any issues beyond those I was specifically retained to address.

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5	BEFORE THE ARIZONA COR	PORATION COMMISSION
7	IN THE MATTER OF THE APPLICATION	DOCKET NO: SW-01428A-09-0103
8	OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA	BOCKET NO. 5 W-0142071 09 0103
9	CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE OF ITS UTILITY PLANTS AND	
10	PROPERTY AND FOR INCREASES IN ITS WASTEWATER RATES AND	
11	CHARGES FOR UTILITY SERVICE BASED THEREON.	
12 13 14 15	IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN	DOCKET NO: W-01427A-09-0104
16	ITS WATER RATES AND CHARGES FOR UTILITY SERVICE BASED THEREON.	
17 18	IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA	DOCKET NO. W-01427A-09-0116
19	CORPORATION, FOR AUTHORITY (1) TO ISSUE EVIDENCE OF	
20	INDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,755,000 IN	
21	CONNECTION WITH (A) THE CONSTRUCTION OF TWO RECHARGE	
22	WELL INFRASTRUCTURE IMPROVEMENTS AND (2) TO	
23	ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY FOR SUCH	
2425	INDEBTEDNESS.	

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1 2 3 4 5 6 7 8	IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA CORPORATION, FOR AUTHORITY (1) TO ISSUE EVIDENCE OF INDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,170,000 IN CONNECTION WITH (A) THE CONSTRUCTION OF ONE 200 KW ROOF MOUNTED SOLAR GENERATOR INFRASTRUCTURE IMPROVEMENTS AND (2) TO ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY FOR SUCH INDEBTEDNESS.	DOCKET NO. W-01427A-09-0120	
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12	REBUTTAL TE	STIMONY	
13	of		
14	THOMAS J. BOURASSA		
15	on		
16	RATE BASE, INCOME STATEN	MENT AND RATE DESIGN	
17	(Phase 1 – Determination of	f Rate Base and Rates)	
18	December 2	2 2009	
19	December 2	a, 2007	
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24			
25			
26			
FENNEMORE CRAIG A PROFESSIONAL CORPORATION PHOENIX			

TABLE OF CONTENTS

2					
3	I.	INTR	ODUC	CTION AND QUALIFICATIONS	1
4	II.	SUMMARY OF LPSCO'S REBUTTAL POSITION			
5	III.	RATE	E BAS	E	6
6		A.	Wate	r Division Rate Base	6
7			1.	Plant-in-Service	6
			2.	Accumulated Depreciation	8
8			3.	Deferred Income Taxes (DIT)	9
9			4.	Advances-in-Aid of Construction (AIAC) and Contributions-in-Aid of Construction (CIAC)	11
0			5.	Reclassification of Advances-in-Aid of Construction (AIAC) to Customer Meter Deposits.	12
.1			6.	Removal of Security Deposits.	
2			7.	Debt Issuance Costs.	
3			8.	Remaining Rate Bases Issues	13
4		B.	Waste	ewater Division Rate Base	19
			1.	Plant-in-Service	19
.5			2.	Accumulated Depreciation	21
6			3.	Deferred Income Taxes (DIT)	22
7			4.	Advances-in-Aid of Construction (AIAC) and Contributions-in-Aid of Construction (CIAC)	23
8			5.	Removal of Security Deposits.	23
9			6.	Debt Issuance Costs.	24
			7.	Remaining Rate Bases Issues	24
20	IV.	INCO	ME S	TATEMENT	29
21		A.	Wate	r Division Revenue and Expenses	29
22			1.	Remaining Revenue and Expense Issues	
23		B.	Wast	ewater Division Revenue and Expenses	39
			1.	Remaining Revenue and Expense Issues	44
24		A.	Rebu	ttal to PebbleCreek on Accounting Issues	
25	V.	RATI	E DES	IGN	49

FENNEMORE CRAIG A PROFESSIONAL CORPORATION PHOENIX

1 2	A.	Water Division Rate Design. 4 1. Cost of Service Study. 5	
	B.	Wastewater Division Rate Design 5	
3			
4			
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6 7			
8			
9			
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FENNEMORE CRAIG A Professional Corporation Phoenix

I. <u>INTRODUCTION AND QUALIFICATIONS</u>

- O. PLEASE STATE YOUR NAME AND ADDRESS.
- 3 A. My name is Thomas J. Bourassa. My business address is 139 W. Wood Drive, 4 Phoenix, Arizona 85029.
 - Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS CASE?
 - A. On behalf of the applicant, Litchfield Park Service Company ("LPSCO" or the "Company").
 - Q. HAVE YOU PREVIOUSLY SUBMITTED DIRECT TESTIMONY IN THE INSTANT CASE?
 - A. Yes, my direct testimony was submitted in support of the initial application in this docket. There were two volumes, one addressing rate base, income statement and rate design, and the other addressing cost of capital.
 - Q. WHAT IS THE PURPOSE OF THIS REBUTTAL TESTIMONY?
 - A. I will provide rebuttal testimony in response to the direct filings by Staff and RUCO. More specifically, this first volume of my rebuttal testimony relates to rate base, income statement and rate design for LPSCO. I will also address the testimony by the intervenors PebbleCreek Properties Limited Partnership ("PebbleCreek") and the City of Litchfield Park ("CLP"). In a second, separate volume of my rebuttal testimony, I will also present an update to the Company's requested cost of capital as well as provide responses to Staff and RUCO on the cost of capital and rate of return applied to the fair value rate base, and the determination of operating income.

II. SUMMARY OF LPSCO'S REBUTTAL POSITION

- Q. WHAT ARE THE REVENUE INCREASES FOR THE WATER AND WASTEWATER DIVISIONS THAT THE COMPANY IS PROPOSING IN THIS REBUTTAL TESTIMONY?
- A. For the water division the Company is proposing a total revenue requirement of \$13,637,738, which constitutes an increase in revenues of \$6,759,028, or 98.26% over adjusted test year revenues. For the wastewater division, the Company is proposing a total revenue requirement of \$11,132,993, which constitutes an increase in revenues of \$4,776,618, or 75.15% over adjusted test year revenues.
- Q. HOW DO THESE COMPARE WITH THE COMPANY'S DIRECT FILING?
- A. They are both lower. In the direct filing for the water division, the Company requested a total revenue requirement of \$13,983,148, which required an increase in revenues of \$7,508,146, or 115.96%. In the direct filing for the wastewater division, the Company requested a total revenue requirement of \$11,347,975, which required an increase in revenues of \$4,991,601, or 78.53%.
- Q. WHY IS THE REQUESTED REVENUE INCREASE LOWER IN LPSCO'S REBUTTAL FILING FOR BOTH DIVISIONS?
- A. In its rebuttal filing, LPSCO has adopted a number of adjustments recommended by Staff and/or RUCO, as well as proposed a number of adjustments of its own based on known and measurable changes to the test year.

For the water division, the net result of these adjustments is: (1) the Company's proposed operating expenses have increased by \$145,654, from \$6,757,892 in the direct filing to \$6,903,546; and a net decrease of \$422,023 in rate base from the direct filing of \$37,924,592 to \$37,502,569.

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For the wastewater division, the net result of these adjustments is: (1) the Company's proposed operating expenses have increased by \$12,838, from \$6,192,596 in the direct filing to \$6,205,414; and a net decrease of \$262,019 in rate base from the direct filing of \$28,296,903 to \$28,034,885.

In addition, the Company has reduced its recommended cost of equity from 12.5% in its direct filing to 12.0% in its rebuttal filing. This has resulted in a lower requested weighted cost of capital from 11.41% in the Company's direct filing to 11.0% in its rebuttal filing.

Q. PLEASE SUMMARIZE THE REASON FOR THE DECREASE IN THE RATE BASES?

For the water division, the Company has proposed a number of rebuttal adjustments to rate base causing a net decrease in rate base. Included among these proposed adjustments is an adjustment to increase plant-in-service to recognize the actual cost of post test year plant, an adjustment to decrease plant-in-service ("PIS") reflecting plant retirements that were not recorded at the end of the test year (including related adjustments to advances-in-aid of construction ("AIAC") and contributions-in-aid of construction ("CIAC")), an increase to PIS for organizational costs approved in last decision, and an increase to PIS to recognize expenses that the Company proposes be capitalized. The net decrease to PIS is \$26,157, the net decrease AIAC is \$8,677, and the net decrease to CIAC is \$7,888. The net rate base impact of these three adjustments is \$(9,562).

In addition to the above mentioned adjustments, the Company is proposing an adjustment to accumulated depreciation for the PIS adjustments it recommends. The net decrease to accumulated depreciation is \$78,672. The net rate base impact is \$78,672.

The Company is also proposing to reclassify \$2,238,022 of AIAC to Customer Meter Deposits (refundable meter and service line charges) and to remove \$68,685 of security deposits from Customer meter deposits. The net rate base impact of these two adjustments is \$68,685.

The Company is also proposing an increase to the water division's deferred income taxes (DIT) of \$426,079 based on its proposed adjustments to PIS and accumulated depreciation as well as to correct an error in its direct filing computation. The net rate base impact of this adjustment is \$(426,079).

Finally, the Company is proposing to reduce debt issuance costs from \$134,528 to zero. The net rate base impact of this adjustment is \$(134,528).

For the wastewater division, the Company has also proposed a number of rebuttal adjustments to rate base, again leading to a net decrease. Included among these proposed adjustments is an adjustment to decrease PIS reflecting plant retirements that were not recorded at the end of the test year (including related adjustments to AIAC and CIAC), an adjustment to decrease plant-in-service for plant transferred to an affiliate, Black Mountain Sewer Company ("BMSC"), and an increase to PIS to recognize expenses that the Company proposes be capitalized. The net decrease to PIS is \$560,453, the net decrease to AIAC is \$16,649, and the net decrease to CIAC is \$93,346. The net rate base impact of these three adjustments is \$450,458.

In addition to the above mentioned adjustments, the Company is proposing an adjustment to accumulated depreciation for the PIS adjustments it recommends. The net decrease to accumulated depreciation is \$573,316. The net rate base impact is \$573,316.

Q. ANYTHING ELSE, MR. BOURASSA?

A. Yes, the Company is also proposing an increase to the wastewater division's deferred income taxes (DIT) of \$319,033 based on its proposed adjustments to PIS and accumulated depreciation as well as to correct an error in its direct filing computation. The net rate base impact of this adjustment is \$(319,033)

Finally, the Company is proposing to reduce debt issuance costs from \$134,528 to zero. The net rate base impact of this adjustment is \$(134,528).

Q. WHAT ARE THE PROPOSED REVENUE REQUIREMENTS AND RATE INCREASES FOR THE COMPANY, STAFF, AND RUCO AT THIS STAGE OF THE PROCEEDING?

A. For the water division, the proposed revenue requirements and proposed rate increases are as follows:

	Revenue Requirement	Revenue Incr.	% Increase
Company-Direct	\$13,983,148	\$7,508,146	115.96%
Staff	\$11,803,750	\$5,328,747	81.82%
RUCO	\$10,923,684	\$4,044,974	58.80%
Company Rebuttal	\$13,637,738	\$6,759,028	98.26%

For the wastewater division, the proposed revenue requirements and proposed rate increases are as follows:

	Revenue Requirement	Revenue Incr.	% Increase
Company-Direct	\$11,347,975	\$4,991,601	78.53%
Staff	\$9,197,992	\$2,841,618	44.71%
RUCO	\$8,169,592	\$1,810,405	28.47%
Company Rebuttal	\$11,132,993	\$4,776,618	75.15%

III. RATE BASEA. Water Division Rate Base

Q. WOULD YOU PLEASE IDENTIFY THE PARTIES' RESPECTIVE RATE BASE RECOMMENDATIONS FOR THE WATER DIVISION?

A. Yes, for the water division the rate bases proposed by the parties proposing a rate base in the case, the Company, Staff and RUCO, are as follows:

	<u>OCRB</u>	<u>FVRB</u>
Company-Direct	\$37,924,592	\$37,924,245
Staff	\$37,218,182	\$37,218,182
RUCO	\$37,222,878	\$37,222,878
Company Rebuttal	\$37,502,569	\$37,502,569

None of the other parties has made a specific proposal regarding rate base, revenues or expenses.

1. Plant-in-Service.

- Q. WOULD YOU PLEASE DISCUSS THE COMPANY'S PROPOSED ORIGINAL COST RATE BASE FOR THE WATER DIVISION, AND IDENTIFY ANY ADJUSTMENTS YOU HAVE ACCEPTED FROM STAFF AND/OR RUCO?
- A. The Company's rebuttal rate base adjustments to the water division's OCRB are detailed on rebuttal schedules B-2, pages 3 through 6. Rebuttal Schedule B-2, page 1 and 2, summarize the Company's proposed adjustments and the rebuttal OCRB.

Rebuttal B-2 adjustment 1, as summarized on Rebuttal Schedule B-2, page 2, consists of three adjustments labeled as "A", "B", "C", "D" and "E" on Rebuttal Schedule B-2, page 3.

Adjustment A reflects an increase to PIS for post test year plant totaling \$18,805. This plant is for the new arsenic treatment facilities. Staff has made

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³ *Id*.

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similar adjustments. RUCO has not made a similar adjustment. However, all the parties include post test year arsenic treatment plant costs in rate base.

Q. PLEASE CONTINUE.

Adjustment B, of rebuttal B-2 adjustment 1, reflects a decrease to PIS of \$78,879 A. to remove the costs of the Litchfield Greens Booster Station. This booster station has not been in service since 2003. Both Staff and RUCO propose similar adjustments to PIS², however, the Company and RUCO treat the removal of the booster station as a retirement whereas Staff does not.³ I will address this later in my testimony in my discussion of the Company proposed accumulated depreciation adjustments.

Adjustment C, of rebuttal B-2 adjustment 1, reflects an increase to PIS of \$19.989 for capitalized expenses. This adjustment reflects an adoption of certain RUCO proposed PIS adjustments for capitalized expenses plus additional amounts. Staff has not proposed any adjustments to PIS for capitalized expenses.

WHAT IS THE DIFFERENCE BETWEEN RUCO AND THE COMPANY Q. FOR CAPITALIZED EXPENSES?

RUCO proposes to capitalize \$9,714 of expenses.⁴ The detail of RUCO's A. capitalized expense can be found in RUCO's operating income adjustment number 4a.⁵ The Company agrees with RUCO to capitalize amounts related to clocks for well site of \$1,114 and a distribution system evaluation of \$8,600. Additionally, however, the Company proposes to capitalize a well spacing evaluation of \$1,380,

¹ See Direct Testimony of Jeffrey M. Michlik for Water Division ("Michlik W Dt.") at 7-8.

² See RUCO Water Schedule 3, page 2 of 4, Adjustment Number 2; Michlik W Dt. at 8-9.

⁴ See RUCO Water Schedule 3, page 4 of 4, Adjustment Number 23.

⁵ See RUCO Water Schedule 4, page 5 of 15, Adjustment Number 4a.

well rehabilitation costs of \$4,072, and a well impact analysis of \$4,823. These three additional amounts RUCO proposes to be removed from test year operating expenses as non-recurring expense, but not capitalized. The Company believes these costs are legitimately capital related as they reflect expenditures which have a benefit (useful life) of more than one year.

Q. PLEASE CONTINUE.

A. Adjustment D, of rebuttal B-2 adjustment 1, reflects the removal of \$7,072 of 2002 office rent included in plant in service. This cost was identified by RUCO in RUCO Schedule 3, page 3 of 4 (Adjustment 16). I have examined the underlying documentation and agree with RUCO on the removal of office rent from plant-in-service.

Adjustment E, of rebuttal B-2 adjustment 1, reflects an increase to PIS of \$21,000 for organization cost approved in the last decision. This adjustment reflects an adoption of RUCO proposed PIS adjustment.⁶ Staff has not proposed any adjustment to PIS for organizational costs.

2. Accumulated Depreciation.

Q. PLEASE EXPLAIN YOUR ADJUSTMENTS TO ACCUMULATED DEPRECIATION.

A. Rebuttal B-2 adjustment 2, as summarized on Rebuttal Schedule B-2, page 2, consists of three adjustments labeled as "A", "B", and "C" on Rebuttal Schedule B-2, page 4.

Adjustment A reflects a decrease to accumulated depreciation for the booster station retirement discussed earlier totaling \$78,879. RUCO makes a similar adjustment.⁷ However, because Staff does not treat the removal of the

⁶ See Direct Testimony of Sonn S. Rowell ("S Rowell Dt.") at 6.

⁷ See RUCO Water Schedule 2, page 2 of 4. Line 19 reflects a previously recorded retirement of \$6,100

booster station as a retirement, Staff only removes \$35,223 of related accumulated depreciation rather than the entire original cost of \$78,879 as would be required with a retirement of plant.⁸ In other words, Staff's adjustment is not rate base neutral, like the adjustments made by the Company and RUCO.

Adjustment B, of rebuttal B-2 adjustment 2, reflects an increase to accumulated depreciation of \$207 for depreciation related to test year capitalized expenses (half-year convention).

Adjustment C, of rebuttal B-2 adjustment 2, reflects a decrease to accumulated depreciation related to the office rent costs removed from PIS as discussed earlier.

Adjustment D, of rebuttal B-2 adjustment 2, reflects a correction for accumulated depreciation amounts for the various plant accounts. In its direct filing, the Company inadvertently included accumulated depreciation of account 303 - Land and Land Rights totaling \$12,145. This amount has been removed and properly distributed over the depreciable plant accounts. The net adjustment to accumulated depreciation is zero.

3. Deferred Income Taxes (DIT)

Q. HAS THE COMPANY PROPOSED A REBUTTAL ADJUSTMENT TO DEFERRED INCOME TAXES FOR THE WATER DIVISION?

A. Yes. In rebuttal B-2 adjustment 3, as shown on Schedule B-2, page 2, the Company's deferred income tax liability is increased by \$426,709 to \$448,160. The increase reflects the Company's rebuttal proposed changes to PIS,

plus the \$78,879 for the booster station. The total accumulated depreciation reduction as shown is \$84,979 (\$6,100 plus \$78,979).

⁸ Michlik W Dt. at 9.

accumulated depreciation, AIAC and CIAC. The details of the Company's rebuttal proposed DIT adjustment is shown on Schedule B-2, page 5.

Q. HAVE YOU UPDATED THE APPROACH TO ESTIMATING THE TAX VALUE OF ASSETS AT THE END OF THE TEST YEAR?

- A. Yes. In its direct filing, the Company rolled forward the tax value at December 31, 2007 to September 30, 2008 (the end of the test year). This is a perfectly acceptable approach and should result in similar DIT. As an alternative, the tax value at December 31, 2008 can be rolled backward to September 30, 2008. The Company has chosen use the "roll backward" approach to help eliminate any disputes with Staff regarding the computation of DIT, such as occurred in the recent BMSC rate case. 9
- Q. COULD THE COMPANY HAVE USED THE "ROLL BACKWARD" APPROACH TO COMPUTING THE TAX VALUE OF ASSETS IN ITS DIRECT FILING?
- A. No. The 2008 tax return information was not available because the parent company's consolidated returns had not been finalized at the time of the Company's direct filing.
- Q. WHAT IS THE PRIMARY REASON FOR THE INCREASE IN THE DEFERRED INCOME TAXES?
- A. Recognition of the reclassification of AIAC to Customer Meter Deposits (meter and service installation charges) which are excluded from the AIAC component of the DIT computation. While technically Customer Meter Deposits are AIAC, depreciation is recognized for both book and tax purposes for these amounts because these charges are treated as revenue for tax purposes providing a tax basis

⁹ Transcript from June 25, 2009 hearing at 743:7-744:11; 745:10-15; 749:24-750:17, *Black Mountain Sewer Corporation*, Docket No. SW-02361A-08-0609.

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in the assets these charges fund. As I have explained in other testimony¹⁰. Customer Meter Deposits should be excluded from the AIAC component in the DIT computation for this reason. In the direct filing, I mistakenly assumed that the Company's Security Deposits were Customer Meter Deposits. Had I not made this error in the direct filing, the DIT proposed in direct would have been similar to the DIT the Company now proposes in its rebuttal filing.

HAVE STAFF OR RUCO PROPOSED CHANGES TO THE COMPANY'S Q. **DEFERRED INCOME TAXES?**

- Staff has proposed the test year unadjusted DIT of \$335,487. Mr. Michlik testifies A. that the DIT is not known and measurable. 11 However, based on Staff testimony in the pending BMSC rate case, where Staff accepted my methodology, I believe that Staff can agree that the Company's DIT approach is correct, even if they disagree with the amount because our numbers do vary. 12
 - Advances-in-Aid of Construction (AIAC) and Contributions-in-4. Aid of Construction (CIAC).
- Q. PLEASE DISCUSS THE COMPANY'S ADJUSTMENT TO ADVANCES-IN-**CONTRIBUTIONS-IN-AID** OF CONSTRUCTION AND AID OF **CONSTRUCTION?**
- In rebuttal B-2 adjustment 4, as shown on Schedule B-2, page 2, the Company Α. proposes a decrease to AIAC of \$8,677 and a decrease to CIAC of \$7,888. These adjustments correspond to the proposed PIS retirement adjustment of \$78,879 for the booster station I discussed previously. Staff proposes similar decreases to

¹⁰ See Rejoinder Testimony of Thomas J. Bourassa in Docket No. SW-02361A-08-0609 at 9-10.

¹¹ Michlik W Dt. at 11.

¹² Transcript from June 25, 2009 hearing at 702:3-7;739: 739:21-740:7, Black Mountain Sewer Corporation, Docket No. SW-02361A-08-0609.

AIAC and CIAC. However, RUCO does not. RUCO has not explained why it does not reduce AIAC and CIAC for the plant it agrees to retire.

5. Reclassification of Advances-in-Aid of Construction (AIAC) to Customer Meter Deposits.

Q. PLEASE DISCUSS THE COMPANY'S RECLASSIFICATION OF ADVANCES-IN-AID OF CONSTRUCTION TO CUSTOMER METER DEPOSITS?

- A. In rebuttal B-2 adjustment 5, as shown on Schedule B-2, page 2, the Company proposes a decrease to AIAC of \$2,238,022 and an increase to Customer Meter Deposits of \$2,238,022. As I discussed earlier, Customer Meter Deposits are technically AIAC, but I have typically shown refundable meter and service line charges as a separate component of rate base under the description "Customer Meter Deposits". By doing so, the DIT computation is easier to follow and compute off of the amounts shown in rate base.
 - 6. Removal of Security Deposits.

Q. PLEASE DISCUSS THE COMPANY'S ADJUSTMENT TO CUSTOMER METER DEPOSITS FOR REMOVAL OF SECURITY DEPOSITS?

A. In rebuttal B-2 adjustment 6, as shown on Schedule B-2, page 2, the Company proposes a decrease to Customer Meter Deposits of \$68,685. This amount is for Security Deposits and as I explained earlier, it was an error on my part to include these amounts in rate base because I mistakenly thought these were Customer Meter Deposits. However, Security Deposits are not a rate base component. They are sometimes, and when appropriate, a component of working capital, but since the Company is not proposing working capital they do not belong in rate base.

¹³ See R-14-2-103, Appendix B Rate Base Schedules.

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DOES STAFF PROPOSE SECURITY DEPOSITS IN RATE BASE? Q.

- Yes. 14 In fact, Staff proposes to increase Customer Meter Deposits from \$68,685 A. to 235,683. 15 Again, these are Security deposits, not customer meter deposits which are not included in rate base. RUCO has not proposed a change to Customer Meter Deposits as originally proposed by the Company.
 - 7. **Debt Issuance Costs.**
- DISCUSS THE COMPANY'S ADJUSTMENT DEBT **PLEASE** Q. **ISSUANCE COSTS?**
- In rebuttal B-2 adjustment 7, as shown on Schedule B-2, page 2, the Company A. proposes a remove debt issuance costs from rate base. While the Company believes that debt issuance costs should either be included in rate base or the costs be reflected in the cost of debt, the Company is removing the costs to help eliminate disputes between the parties. Staff and the Company are now in agreement to exclude debt issuance cost from rate base.
 - 8. Remaining Rate Bases Issues.
- Q. PLEASE DISCUSS THE REMAINING RATE BASE ISSUES BETWEEN THE PARTIES.
- The Company does not agree with RUCO's proposed adjustments to PIS for A. RUCO asserted unsupported capitalized affiliate labor, various invoices that could not be found, and/or costs that were associated with repair work.¹⁶
- LET'S START WITH CAPITALIZED AFFILIATE LABOR. **PLEASE** Q. DISCUSS THE ISSUES RUCO HAS WITH THE AFFILIATE LABOR COSTS.

¹⁴ Michlik W Dt. at 10.

¹⁵ *Id*.

¹⁶ S Rowell Dt. at 6.

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First, let me explain that the capitalized affiliate profit was included in capitalized affiliate labor. The profit existed because the Company charged affiliate labor at market rates.¹⁷ In any case, the Company removed the capitalized affiliate profit from plant costs.¹⁸ What remains in the Company's plant costs is capitalized affiliate labor at cost.

RUCO finds that the Company did not adequately support the capitalized affiliate labor because RUCO found discrepancies in the amounts included in the Company's B-2 water schedule and information contained in a response to RUCO 3.7. The apparent discrepancy is shown in Table 1 on page 20 of Ms. Rowell's direct testimony. Table 1 summaries the year-to-year capitalized affiliate profit reflected on the Company's B-2 schedule and the information provided by the Company in response to RUCO data request MJR 3.7¹⁹. Ms. Rowell admits that there is not a large discrepancy in total amount of capitalized affiliate profit but still takes issue with the year-to-year amounts. For example, the total capitalized affiliate profit reflected in the Company's B-2 water schedules totals \$279,398 and the total capitalized labor contained in the information provided in response to MJR 3.7 totals \$284,008 - a difference of \$9,221 or 3.3%. But, as explained by the Company in response to RUCO data request 3.6, the capitalized labor is first recorded to construction work-in-progress ("CWIP") and later transfer to PIS when the project is placed into service. So, the year-to-year difference will exist when the labor cost is first capitalized and when labor cost actually is reflected in PIS.

¹⁷ See Company Rebuttal B-2 water schedule, pages 3.5 to 3.14.

¹⁸ The Company's current practice is to charge capitalized labor at cost.

¹⁹ Those data request responses referenced herein are voluminous, and for this reason are not attached, however, copies were provided to Staff, RUCO, and the other intervenors who requested them.

RUCO also finds the capitalized affiliate labor information to be inadequate because the invoices provided in response to Staff data requests 1.52 and 1.77 for affiliate labor contained almost no relevant information.²⁰ However, the detail of the capitalized labor was provided to all of the parties as part of the Company's work papers.²¹ This work paper file contained the name of the NARUC account, the project name, the date, the labor rate, payroll burden, the total cost, and the related affiliate profit.

Q. WHAT ABOUT COSTS FOR VARIOUS INVOICES THAT COULD NOT BE FOUND OR WERE FOR REPAIR WORK?

- A. According to the notes on RUCO Water Schedule 3, pages 2, 3, and 4, for unsupported costs it appears that RUCO disallows a \$19,000 cost from Yahweh Contracting (2001), three costs from Hughes Supply (2002) for \$5,081, \$4,931, and \$4,931, a cost from Courtesy Chevrolet (2002) for \$14,919, and a cost from W. Fischer (2002) for \$2,750. The balance of the notes on RUCO Schedule 3 appear to indicate that other plant costs RUCO proposes to disallow are related to repairs that RUCO believes should not be capitalized.
- Q. LET'S START WITH THE ASSERTED UNSUPPORTED AMOUNTS FROM YAHWEH CONTRACTING AND HUGHES SUPPLY. DO YOU HAVE A COMMENT?
- A. Yes. For the \$19,000 cost from Yahweh Contracting, I have examined the information contained in response to data request JMM 1.52 and have located the invoices supporting this amount. I have included copies of these invoices at TBJ-RB1 (Rate Base Phase I), attached hereto. For the costs from Hughes Supply, I

²⁰ S Rowell Dt. at 18.

²¹ Work paper file "LPSCO CAP Profit from Acquisition to Sept 30 2008.xls." (This work paper file (and any others cited herein) is voluminous and therefore is not attached, however, it was provided to Staff, RUCO, and the other intervenors who requested work papers.)

found one invoice, not three separate invoices, contained in the response to JMM 1.52 which supports the cost of \$14,943 (\$5,081 plus \$4,931 plus \$4,931).

Q. WHY WERE THERE THREE ENTRIES IN THE PLANT LEDGER BUT ONLY ONE INVOICE?

A. Frankly, I don't know and it doesn't matter. The bottom line is that the three plant ledger entries reference the same Hughes Supply invoice number (868500) as \$14,943 invoice. There is no question that this is the invoice supporting the three ledger entries.²²

Q. WHAT ABOUT THE COST FROM COURTESY CHEVROLET?

A. For the \$14,919 cost from Courtesy Chevrolet, I found an invoice contained in response to JMM 1.52 which supports a cost of \$15,225. This is the only 2002 invoice from Courtesy Chevrolet for transportation equipment in 2002. The lead sheet (Excel file) reports a cost of \$15,225. 23

Q. DOES RUCO HAVE A JUSTIFIABLE BASIS TO DISALLOW THESE COSTS?

A. No.

Q. WHAT ABOUT THE INVOICE FROM W. FISCHER FOR \$2,750?

A. The Company identified this invoice as a missing invoice in its response to JMM 1.52. However, the Company believes that this cost should be allowed. JMM 1.52 requested plant documentation on nearly \$61 million of plant going back to 2001. Given the breadth of the request and the length of time, I am impressed by the ability of the Company to provide nearly every invoice. As an auditor, I would not find the \$2,750 suspect. The ledger records contain enough information to

²² A copy of the invoice is included in TJB-RB1 (Rate Base – Phase I), attached hereto.

²³ A copy of the invoice is included in TJB-RB1 (Rate Base – Phase I), attached hereto.

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determine the nature of the cost (a forklift) as well as the vendor and other information to determine its reasonableness.

0. PLEASE COMMENT ON CAPITALIZED REPAIR COSTS?

- The Company does not agree with RUCO that the repair costs RUCO proposes to A. disallow should not have been capitalized.²⁴ Repairs that extend the life of equipment and/or benefit the Company over more than one year should be capitalized. This is a generally accepted accounting principle. I have examined a number of the repair invoices and find that the Company was justified in capitalizing these repair costs. RUCO has not provided any reasons other than that these costs related to repairs as the basis for their recommended disallowance. This is not sufficient justification to disallow the capitalization of cost.
- LET'S MOVE ON. PLEASE DISCUSS THE DEFERRED REGULATORY Q. ASSETS THE COMPANY PROPOSES TO INCLUDE IN RATE BASE.
- Staff proposes to exclude the Company proposed deferred regulatory assets from A. As you will recall, there are deferred costs related to potential rate base.²⁵ contamination of the Company's wells. The Company obtained an Accounting Order (Decision 69912 (September 27, 2007)) specifically allowing these cost to be deferred and considered in the Company next rate case. Staff is recommending disallowance because the Company has not yet taken any legal steps to recover these costs.²⁶ However, the Company has taken action as contemplated in the Accounting Order and believes that it is appropriate to begin recovery of the costs incurred through the end of the test year.²⁷ Further, the Company will continue to

²⁴ S Rowell Dt. at 6,

²⁵ Michlik W Dt. at 14.

²⁶ *Id*.

²⁷ Rebuttal Testimony of Greg Sorensen (Phase I) ("Sorensen Rb.") at 11-12.

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track future costs related to this issue and seek recovery in future rate case. Mr. Sorenson discusses this issue in more detail in his rebuttal testimony.

RUCO is proposing to include the deferred regulatory costs in rate base.²⁸ However, RUCO reduces the deferred regulatory asset by \$8,256 which RUCO believes is double counted.²⁹ The \$8,256 is one year of amortization that is included in the Company's proposed operating expenses.

Q. HOW IS THE \$8,256 DOUBLE COUNTED?

It's not. The \$8,256 the Company proposes to be included in operating expenses for purposes of determining the revenue requirement will not be reflected in rates until new rates are approved. Accordingly, the deferred regulatory cost should not be reduced. Conceptually, it is the same as annualized depreciation. All of the parties reflect a full year of depreciation (annualized depreciation) in their respective proposed operating expenses. The annualized depreciation will be the depreciation expense reflected in new rates when a decision is rendered in the instant case just as the \$8,256 of amortization. The annualized depreciation is higher than the test year actual depreciation because plant additions during the test year received only a half year of depreciation. But, none of the parties propose to increase accumulated depreciation in rate base for the annualized amount of depreciation over and above the actual test year accumulated depreciation. By reducing the deferred regulatory assets by one year of amortization because the Company proposes to include amortization in rates is inconsistent with generally accepted rate making principles.

²⁸ S Rowell Dt. at 5.

²⁹ *Id*.

B. Wastewater Division Rate Base

Q. WOULD YOU PLEASE IDENTIFY THE PARTIES' RESPECTIVE WASTEWATER RATE BASE RECOMMENDATIONS?

A. Yes, for the Water Division the rate bases proposed by the parties proposing a rate base in the case, the Company, Staff and RUCO, are as follows:

	<u>OCRB</u>	<u>FVRB</u>
Company-Direct	\$28,296,903	\$28,296,903
Staff	\$27,472,314	\$27,472,314
RUCO	\$21,248,950	\$21,248,950
Company Rebuttal	\$28,034,855	\$28,034,855

Again, the other parties have not made specific proposals for rate base.

1. Plant-in-Service.

- Q. WOULD YOU PLEASE DISCUSS THE COMPANY'S PROPOSED ORIGINAL COST RATE BASE FOR THE WASTEWATER DIVISION, AND IDENTIFY ANY ADJUSTMENTS YOU HAVE ACCEPTED FROM STAFF AND/OR RUCO?
- A. The Company's rebuttal rate base adjustments to the wastewater division's OCRB are detailed on rebuttal schedules B-2, pages 3 through 6. Rebuttal Schedule B-2, page 1 and 2, summarize the Company's proposed adjustments and the rebuttal OCRB.

Rebuttal B-2 adjustment 1, as summarized on Rebuttal Schedule B-2, page 2, consists of three adjustments labeled as "A", "B", and "C" on Rebuttal Schedule B-2, page 3. Adjustment A, of rebuttal B-2 adjustment 1, reflects a decrease to PIS of \$554,977 to remove the costs of the Wigwam Lift Station, the Bullard Lift Station, and the Litchfield Greens Lift Station. The Wigwam Lift Station, the Bullard Lift Station, we taken out of service in 2002 and the Litchfield Greens Lift

Station was taken out of service in 2007. Both Staff and RUCO propose similar adjustments to PIS.³⁰ Again, though, LPSCO and RUCO treat the removal of the lift stations as retirements.³¹

Adjustment B, of rebuttal B-2 adjustment 1, reflects a decrease to PIS of \$38,250 for an odor control unit transfer to Black Mountain Sewer Company ("BMSC"). Staff and RUCO propose a similar adjustment except that the amount they propose in \$38,625.³² The Company has provided the parties with further documentation that supports the Company's amount.³³

Adjustment C, of rebuttal B-2 adjustment 1, reflects an increase to PIS of \$25,702 for capitalized expenses. This adjustment reflects an adoption of certain RUCO proposed PIS adjustments for capitalized expenses plus additional amounts. Staff has not proposed any adjustments to PIS for capitalized expenses.

Q. WHAT IS THE DIFFERENCE BETWEEN RUCO AND THE COMPANY FOR CAPITALIZED EXPENSES?

A. RUCO proposes to capitalize \$17,124 of expenses.³⁴ The detail of RUCO's capitalized expense can be found in RUCO's operating income adjustment number 4a.³⁵ The Company agrees with RUCO to capitalize amounts related to generator duct fabrication and installation of \$5,004, installation of a rebuilt pump of \$1,530, the cost of new reinforced strainer baskets of \$4,864, the cost of a fence and

³⁰ See RUCO Wastewater Schedule 3, page 2 of 4, Adjustment Number 3 and 4 which totals \$544,977. According to Staff the total is \$554,977. See Direct Testimony of Jeffery M. Michlik for Wastewater Division ("Michlik WW Dt.") at 7.

³¹ *Id*.

³² See RUCO Wastewater Schedule 3, page 2 of 4, Adjustment Number 5; see Michlik WW Dt. at 8.

³³ Information was provided to Staff and RUCO on November 27, 2009. The documentation is attached hereto as **TJB-RB2** (Rate Base – Phase I. The final schedules in the BMSC rate case will reflect the updated cost and related accumulated depreciation.

³⁴ See RUCO Wastewater Schedule 3, page 2 of 4, Adjustment Number 6 and 7.

³⁵ See RUCO Wastewater Schedule 4, page 5 of 15, Adjustment Number 4a.

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installation of \$3,725, the cost of odor monitor site plant and pole of \$1,450, and the cost of odor monitor legal description and map of \$550. Additionally. however, the Company proposes to capitalize a filter system repair of \$8,054, and the cost of work on a UV system of \$525. These two additional amounts RUCO proposes to be removed from test year operating expenses as non-recurring expense, but not capitalized. The Company believes these costs are legitimately capital related as they reflect expenditures which have a benefit (useful life) of more than one year.

2. Accumulated Depreciation.

ACCUMULATED Q. PLEASE **EXPLAIN YOUR ADJUSTMENTS** TO DEPRECIATION.

Rebuttal B-2 adjustment 2, as summarized on Rebuttal Schedule B-2, page 2, Α. consists of three adjustments labeled as "A", "B", and "C" on Rebuttal Schedule B-2, page 4.

Adjustment A reflects a decrease to accumulated depreciation for the lift station retirements discussed earlier totaling \$554,977. RUCO makes a similar adjustment although I believe RUCO's adjustment is incorrect.36 However. because Staff does not treat the removal of the lift stations as retirements, Staff only removes \$182,696 of related accumulated depreciation rather than the entire original cost of \$554,977 as would be required with a retirement of plant.³⁷ In this fashion. Staff lowers rate base, as compared to LPSCO and RUCO's plant retirements, which are rate base neutral.

³⁶ See RUCO Wastewater Schedule 2, page 2 of 4. Line 19 reflects and 2002 adjustment of \$780,874, but it should be \$790,874 consisting of a previously recorded 2002 retirement of \$332,823 plus \$458,051 for the 2002 retirement of the Wigwam and Bullard lift stations. Also, the adjustment for the 2007 retirement of the Litchfield Greens Lift Station totaling \$96,926 is missing.

³⁷ Michlik WW Dt. at 9.

Adjustment B, of rebuttal B-2 adjustment 2, reflects a decrease to accumulated depreciation of \$11,040 for depreciation related to the odor control unit transfer to BMSC discussed earlier.

Adjustment C, of rebuttal B-2 adjustment 2, reflects a decrease to accumulated depreciation of \$8,003 for cost related to the decommissioning (removal of) the Litchfield Green Lift Station that was recorded in expense during the test year. This is the proper regulatory treatment of these types of costs. As I will discuss, I have removed this cost from test year expenses. RUCO identified this cost as a non-recurring expense for the test year and also removed this cost from operating expenses.³⁸ However, RUCO has not proposed an adjustment to accumulated depreciation.

Adjustment D, of rebuttal B-2 adjustment 2, reflects an increase to accumulated depreciation of \$705 for depreciation related to test year capitalized expenses (half-year convention) as discussed previously.

3. Deferred Income Taxes (DIT)

Q. HAS THE COMPANY PROPOSED A REBUTTAL ADJUSTMENT TO DEFERRED INCOME TAXES FOR THE WASTEWATER DIVISION?

A. Yes. In rebuttal B-2 adjustment 3, as shown on Schedule B-2, page 2, the Company's deferred income tax liability is increased by \$319,033 to \$335,020. The increase reflects the Company's rebuttal proposed changes to PIS, accumulated depreciation, AIAC and CIAC. The details of the Company's rebuttal proposed DIT adjustment is shown on Schedule B-2, page 5. As I explained previously, the Company's DIT computation also reflects an updated tax value of

³⁸ See RUCO Wastewater Schedule 4, page 5 of 19, Operating Income Adjustment 4a.

assets starting with 2008 tax information and a correction to the AIAC balance contained in the computation.

- Q. HAS STAFF OR RUCO PROPOSED CHANGES TO THE COMPANY'S DEFERRED INCOME TAXES FOR THE WASTEWATER DIVISION?
- A. As with the water division rate base, Staff has proposed the test year unadjusted DIT of \$335,487 claiming that the DIT amount is not known and measurable.³⁹ Again, Staff just agreed with my methodology in the BMSC case and will hopefully do so again in this case.
 - 4. Advances-in-Aid of Construction (AIAC) and Contributions-in-Aid of Construction (CIAC).
- Q. PLEASE DISCUSS THE COMPANY'S ADJUSTMENT TO ADVANCES-IN-AID OF CONSTRUCTION AND CONTRIBUTIONS-IN-AID OF CONSTRUCTION?
- A. In rebuttal B-2 adjustment 4, as shown on Schedule B-2, page 2, the Company proposes a decrease to AIAC of \$16,649 and a decrease to CIAC of \$93,346. These adjustments correspond to the proposed PIS retirement adjustment of \$554,977 for the lift stations I discussed previously. Staff proposes similar decreases to AIAC and CIAC. However, RUCO does not. RUCO has not explained why it does not reduce AIAC and CIAC for the retired lift stations.
 - 5. Removal of Security Deposits.
- Q. PLEASE DISCUSS THE COMPANY'S ADJUSTMENT TO CUSTOMER METER DEPOSITS FOR REMOVAL OF SECURITY DEPOSITS.
- A. In rebuttal B-2 adjustment 6, as shown on Schedule B-2, page 2, the Company proposes a decrease to Customer Meter Deposits of \$68,685. This amount is for

³⁹ Michlik WW Dt. at 11.

Security Deposits, and as I explained earlier, it was an error on my part to include these amounts in rate base because I mistakenly thought these were Customer Meter Deposits.

Q. DOES STAFF AND/OR RUCO PROPOSE SECURITY DEPOSITS IN RATE BASE?

- A. Yes.⁴⁰ In fact, Staff proposes to increase Customer Meter Deposits from \$68,685 to 81,798.⁴¹ Again, these are Security deposits, not customer meter deposits which are not included in rate base. RUCO has not proposed a change to Customer Meter Deposits as originally proposed by the Company.
 - 6. Debt Issuance Costs.
- Q. PLEASE DISCUSS THE COMPANY'S ADJUSTMENT TO DEBT ISSUANCE COSTS.
- A. In rebuttal B-2 adjustment 7, as shown on Schedule B-2, page 2, the Company proposes a remove debt issuance costs from rate base for the same reason I indicated earlier to help eliminate disputes.
 - 7. Remaining Rate Bases Issues.
- Q. PLEASE DISCUSS THE REMAINING RATE BASE ISSUES BETWEEN THE PARTIES.
- A. The Company does not agree with RUCO's proposed adjustments to PIS for RUCO asserted unsupported capitalized affiliate labor and/or costs that were associated with repair work.⁴²

⁴⁰ Michlik WW Dt. at 9.

⁴¹ *Id*.

⁴² S Rowell Dt. at 12.

Q. LET'S START WITH CAPITALIZED AFFILIATE LABOR. PLEASE DISCUSS THE ISSUES RUCO HAS WITH THE AFFILIATE LABOR COSTS.

A. I have already explained the nature of the capitalized labor costs earlier. As with the water division, RUCO finds the Company did not adequately support the capitalized affiliate labor for the Wastewater Division because it found discrepancies in the amounts included in the Company's B-2 wastewater schedule and information contained in a response to RUCO 3.7. The apparent discrepancy is shown in Table 1 on page 20 of Ms. Rowell's direct testimony. Table 1 summaries the year-to-year capitalized affiliate profit reflected on the Company's B-2 wastewater schedule and the information provided by the Company in response to RUCO data request MJR 3.7. But Ms. Rowell admits that there isn't a large discrepancy in the total amount of capitalized affiliate profit but takes issue with the year-to-year amounts.

For example, the total capitalized affiliate profit reflected in the Company's B-2 water schedules totals \$651,163 and the total capitalized labor contained in the information provided in response to MJR 3.7 totals \$655,330 - a difference of \$4,167 or 0.6%. But, as explained by the Company in response to RUCO data request 3.6, the capitalized labor is first recorded to construction work-in-progress ("CWIP") and later transferred to PIS when the project is placed into service. So, the year-to-year difference will exist when the labor cost is first capitalized and when labor cost actually is reflected in PIS.

RUCO also finds the capitalized affiliate labor information to be inadequate because the invoices provided in response to Staff data requests 1.52 and 1.77 for affiliate labor contained almost no relevant information.⁴³ However, as explained

⁴³ S Rowell Dt. at 18.

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above, the detail of the capitalized labor was provided to all of the parties as part of the Company's work papers and contained all the needed information.⁴⁴

PLEASE COMMENT ON THE CAPITALIZED REPAIR COSTS? Q.

- The Company does not agree with RUCO that the repair costs is proposes to Α. disallow should not have been capitalized. I have discussed the reasons why earlier in my testimony and will not repeat them here.
- OK. LET'S MOVE ON. RUCO IS PROPOSING TO REMOVE \$1,230,049 Q. FROM PLANT IN SERVICE TO ADJUST FOR DIFFERENCES IN THE STARTING BALANCE OF PLANT-IN-SERVICE. DO YOU HAVE A **COMMENT?**
- Yes. RUCO proposes to eliminate \$1,230,049 of cost for plant because it believes Α. its recommended plant balance should be the starting balance from the last case.⁴⁵ However, the evidence contradicts RUCO's position. The \$1,230,049 of cost was related to a sewer line that was part of CWIP at the end of the last test year, but was actually placed into service during the test year. 46 As a result, RUCO's adjustment effectively eliminates plant found by Staff in the last rate case to be used and useful and included in rate base.⁴⁷ I have included as a copy of the rate base schedule from Staff's surrebuttal filing in the last rate case as TJB-RB3 (Rate Base – Phase I), which schedule matches the Company's starting balance of wastewater division PIS and accumulated depreciation as found on the Company's wastewater Schedule B-2, page 3.4.

⁴⁴ Work paper file "LSPCo CAP Profit from Acquisition to Sept30 2008.xls."

⁴⁵ S Rowell Dt. at 11.

⁴⁶ See Rebuttal Testimony of Dan L. Neidlinger in Docket W-01428A-01-0487 and SW-01428A-01-0487 at 7; Rebuttal Testimony of David W. Ellis in Docket W-01428A-01-0487 and SW-01428A-01-0487 at 3.

⁴⁷ See Surrebuttal Testimony of Roger D. Nash in Docket W-01428A-01-0487 and SW-01428A-01-0487 at 2.

Q. WASN'T THE LAST RATE CASE BASED ON A SETTLEMENT?

A. Yes, and, I agree with RUCO that it was difficult to determine the starting balance of plant for the wastewater division as a result. But, the best evidence of a starting balance of plant is Staff's schedule.⁴⁸ RUCO's starting balance of plant in the last case was not the result of over a dispute about whether the plant existed or its cost, but rather a dispute about whether the costs should be included in rate base.⁴⁹

Q. ARE THERE ANY OTHER REMAINING RATE BASE DISPUTES WITH RUCO.

A. Yes. RUCO proposes to exclude \$36,500 of cost related to work performed by Pacific Advanced Civil Engineering related to the permitting of the Palm Valley Water Reclamation Facility ("PVWRF").⁵⁰ The Company disagrees as addressed in more detail in the rebuttal testimony of Mr. Sorenson.⁵¹

Q. DOESN'T RUCO PROPOSE TO REMOVE NEARLY \$3.5 MILLION OF COST RELATED TO THE PVWRF?

A. Yes.⁵² RUCO recommends that 50% of the cost be disallowed because these costs are related to correcting design problems with the PVWRF.⁵³ The Company disagrees with RUCO. This issue is also addressed in more detail in the rebuttal testimony of Mr. Sorenson.⁵⁴

⁴⁸ Both Staff and the Company ultimately agreed that the full \$1,230,049 was useful and useful plant in service for the test year in the last case.

⁴⁹ See Surrebuttal Testimony of Timothy J. Coley in Docket W-01428A-01-0487 and SW-01428A-01-0487 at 7.

⁵⁰ S Rowell Dt. at 11-12.

⁵¹ Sorensen Rb. at 18-20.

⁵² *Id.* at 13.

⁵³ See Direct Testimony of Mathew Rowell ("M Rowell Dt.") at 4-6.

⁵⁴ Sorensen Rb. at 14-15.

⁵⁵ S Rowell Dt. at 11.

Q. PLEASE RESPOND TO RUCO'S RECOMMENDATION TO INCREASE CIAC FOR THE WASTEWATER DIVISION BY \$597,670.

- A. RUCO recommends increasing the wastewater division CIAC balance by 597,670 because the Company failed to include this amount in rate base. ⁵⁵ However, RUCO is incorrect. The \$597,670 was properly included in the water division rate base. As evidenced by the Company's response to Staff data request JMM 1.28, the \$570,670 was related to expired AIAC (refundable line extension agreement).
- Q. BUT DIDN'T THE COMPANY'S RESPONSE TO STAFF DATA REQUEST JMM 1.27 INDICATE THAT THE WASTEWATER DIVISION'S CIAC BALANCE WAS \$19,334,802 AND NOT \$18,737,132 AS SHOWN ON THE COMPANY'S WASTEWATER RATE BASE SCHEDULE?
- A. Yes. The response to JMM 1.27 indicated the CIAC balance for the wastewater division was higher by \$597,670. But JMM 1.27 also indicated that the water division CIAC was lower by \$597,670.

Q. PLEASE EXPLAIN.

A. The response to JMM 1.27 also indicated that the water division's CIAC balance was \$2,506,398 and not \$3,104,068 as shown on the Company's water division rate base schedule in its direct filing. Putting aside the fact that the \$597,670 is related to water division CIAC, if RUCO were consistent, it should have recommended that the water division CIAC be decreased by \$597,670 and that the wastewater division CIAC be increased by \$597,670. But, again, the Company's respective rate base schedules for the water and wastewater division already reflect the correct level of CIAC and do not need to be adjusted.

IV. INCOME STATEMENT

- A. Water Division Revenue and Expenses.
- Q. WOULD YOU PLEASE DISCUSS THE COMPANY'S WATER DIVISION PROPOSED ADJUSTMENTS TO REVENUES AND EXPENSES AND IDENTIFY ANY ADJUSTMENTS YOU HAVE ACCEPTED FROM STAFF AND/OR RUCO?
- A. The Company rebuttal adjustments for the Water Division are detailed on Rebuttal Schedule C-2, pages 1-14. The rebuttal income statement with adjustments is summarized on Rebuttal Schedule C-1, page 1-2.

Rebuttal adjustment 1 increases depreciation expense. Depreciation expense is lower primarily due to the impacts of the Company proposed rebuttal adjustments to plant-in-service. The difference in depreciation expense compared to RUCO is primarily due to a difference in the respective parties proposed PIS. The difference in depreciation expense compared to Staff is primarily due to a difference in the respective party's computation of CIAC amortization. Staff uses a composite depreciation rate for all depreciable PIS where as the Company uses account specific rates for the plant accounts funded with CIAC. The Company disagrees with Staff's method of computing amortization in the instant case.

Q. WHY?

A. Composite depreciation rates should be used when the CIAC amounts have not been specifically identified with the plant accounts. Historically, the Company has tracked its CIAC with the specific plant accounts and there is no reason to change the practice of using the depreciation rates for these plant accounts to amortize CIAC in the instant case.

O. PLEASE CONTINUE.

Rebuttal adjustment number 2 increases property tax expense and reflects the rebuttal proposed revenues. Staff and the Company are in agreement on the method of computing property taxes. This method utilized the ADOR formula and inputs two years of adjusted revenues plus one year of proposed revenues. I computed the property taxes based on the Company's proposed revenues, and then used the property tax rate and assessment ratio that was used in the direct filing.

Amazingly, RUCO uses the test year revenues and two historical years of revenues (2006 and 2007). This is the same method RUCO argued for nearly a decade, but recently appeared to drop in the face of uniform rejection by the Commission. The Commission determines property taxes using historical and projected revenues.⁵⁶

Q. IS RUCO'S POSITION CONSISTENT WITH THEIR POSITION IN THE RECENT BLACK MOUNTAIN SEWER CASE?

- A. No. In that case RUCO proposed that property taxes be computed using one year of proposed revenues and two years of historical revenues.
- Q. HAS RUCO EXPLAINED WHY IT IS NOW GOING BACK TO A METHOD THAT HAS BEEN REJECTED IN THE PAST?
- 19 A. No.⁵⁷

Q. PLEASE CONTINUE.

A. Rebuttal adjustment number 3 removes meals and entertainment expenses from miscellaneous expense. The adjustment reflects the Company acceptance of

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PHOENIX

⁵⁶ See, e.g., Decision No. 64282 at 12-13; Decision No. 65350 at 15-16.

⁵⁷ S Rowel Dt. at 9 and 17.

Staff proposed adjustment for meals and entertainment expenses.⁵⁸ RUCO has not proposed a similar adjustment.

Rebuttal adjustment number 4 increases bad debt expense reflecting a normalized level of bad debt expense proposed by Staff.⁵⁹ RUCO has not proposed a similar adjustment.

Rebuttal adjustment number 5 normalizes fuel for power production expenses and reduces expense by \$20,309. RUCO proposes to disallow \$56,381 of fuel for power expenses incurred during the test year because they are non-recurring. However, the Company believes these are typical and recurring expenses and seeks to help minimize issues between the parties by normalizing the expense.

Rebuttal adjustment number 6 reflects the adoption of RUCO proposed adjustment to revenues for the City of Goodyear ("Goodyear"). While the Company believes that Goodyear will not be a customer in the future, at the present time Goodyear is still receiving service.

Rebuttal adjustment number 7 reduces chemical expense for expenses that occurred outside the test year. RUCO proposes a similar adjustment totaling \$2,309.⁶⁰ However, RUCO's adjustment contains errors. A review of the invoices identified by RUCO⁶¹ and the Company's general ledger⁶² indicates that all of the amounts with the exception of a \$305 invoice from Hills Brothers Chemicals are reversed out and are not included in the test year expense. Staff does not propose a similar adjustment.

^{23 | 58} Michlik W Dt. at 20.

⁵⁹ *Id.* at 20-21.

⁶⁰ S Rowell Dt. at 7.

⁶¹ See RUCO Water Schedule 3, page 4 of 15.

⁶² See Company response to Staff data request JMM 1.40.

Rebuttal adjustment number 8 reduces contractual services –other expense by \$19,989 for Company proposed capitalized expenses. RUCO makes a similar adjustment for capitalized expenses totaling \$9,714.⁶³ RUCO also proposes to remove from expense an additional \$19,912 for non-recurring expenses.⁶⁴ The Company's adjustment of \$19,989 includes \$10,275 of the RUCO's asserted non-recurring expenses.

Q. WHAT IS THE REMAINING AMOUNT OF EXPENSE IN DISPUTE?

A. The total expense RUCO recommends be disallowed in operating expenses is \$29,625 (\$9,814 plus \$19,912). The Company recommends \$19,989 of these costs be removed from expense and capitalized leaving a difference of \$9,636 (\$29,625 minus \$19,989). The Company believes the remaining \$9636 reflects the nature and level of expense the Company expects to incur on a going forward basis and therefore the costs should be allowed in operating expense.

Adjustment number 9 reduces contractual services – other which reflect a portion of the \$8,451 RUCO seeks to remove from expense.⁶⁵

Q. WHAT ARE THE EXPENSES INCLUDED IN RUCO'S PROPOSED ADJUSTMENT THAT THE COMPANY AGREES TO REMOVE?

A. The Company agrees to remove the allocated portion expenses related to a holiday party and the costs for Diamondbacks games. RUCO seeks to exclude the costs of dues and memberships, business publications, and travel. The Company believes these are prudent and necessary expenses.

⁶³ See RUCO Water Schedule 3, page 5 of 15, lines 1-4.

⁶⁴ See RUCO Water Schedule 3, page 5 of 15, lines 7-15.

⁶⁵ See RUCO Water Schedule 3, page 7 of 15.

Q. PLEASE CONTINUE.

- A. Rebuttal adjustment 10 reflects an increase to the allocated affiliate central office costs and reflects actual cost incurred by the central office for the test year of \$5,125,785.⁶⁶ The Company's adjustment is detailed on Rebuttal Schedule C-2, page 11.
- Q. DID THE COMPANY REMOVE THE COSTS OF CHARITABLE CONTRIBUTIONS, ENTERTAINMENT EXPENSES, AWARDS, AND IRS PENALTIES FROM ITS CENTRAL OFFICE ALLOCATION POOL?
- A. Yes. The Company removed \$191,828 of costs Staff recommends to be disallowed in operating expenses.⁶⁷
- Q. PLEASE COMMENT ON STAFF'S ADJUSTMENT FOR ALLOCATED CENTRAL OFFICE COSTS?
- A. Staff is recommending an expense level of \$1,595 based on an adjusted central office allocation pool of \$113,224 and an allocation factor of 1.41 percent. Staff's allocation method and analysis of the benefits to LPSCO's water and wastewater divisions is flawed. Staff eliminates 97 percent of the central office cost allocation pool before allocating the remaining 3 percent to LPSCO's water and wastewater divisions. As I testified in the pending BMSC rate case, APIF incurs the central office cost for the benefit of its subsidiary businesses. APIF provides management, financial, audit, tax, legal resources, and corporate governance for all of its subsidiary businesses that would otherwise be incurred if they were a stand-alone business. In other words, but for the subsidiary business APIF would not have central office costs. But the real benefit under the APIF model is there enormous economies of scale that are achieved.

⁶⁶ See Company response to Staff data request JMM 5.5.

⁶⁷ Michlik W Dt. at 18.

Q. PLEASE COMMENT ON RUCO'S ADJUSTMENT TO ALLOCATED CENTRAL OFFICE COSTS?

A. In its direct testimony, RUCO recommends disallowing all the central office costs for the water division. RUCO agrees with the cost allocation methodology for Liberty Water, but disallows all of the cost allocation from Algonquin Power Trust ("APT"). RUCO bases its recommended disallowance of central office cost allocation on several factors. First, RUCO claims it could not reconcile the Company indicated central office cost allocation of \$250,979 with the amounts based on the Company's billings for central office costs of \$291,708. Second, RUCO claims that during the test year, the Company increased its central office cost billings without providing any explanation. Third, RUCO asserts the central office cost invoices do not contain sufficient detail. Finally, RUCO claims that the Company has not sufficiently explained the central office costs to determine whether the services provided are necessary for the provision of service of LPSCO.

Q. PLEASE RESPOND TO RUCO'S CRITICISMS OF THE CENTRAL OFFICE COST ALLOCATION?

A. With respect to the first criticism, RUCO is correct that the actual Water Division central office costs for the test year were \$291,708. The \$250,979 was based on a 2008 calendar year budget. RUCO's inability to reconcile those numbers stems from RUCO's failure to understand that those numbers apply to a different time

⁶⁸ M Rowell Dt. at 13.

⁶⁹ M Rowell Dt. at 12-13.

⁷⁰ *Id*.

⁷¹ *Id*.

⁷² *Id*.

⁷³ *Id*.

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periods. As noted, the \$250,979 amount is for the budgeted central office costs for the 2008 calendar year (January through December 2008) whereas the \$291,708 amount is for billed central office costs during the test year (September 2007-October 2008). As I testified earlier, the central office costs have now been truedup to the actual test year central office costs incurred. Based on the Company's rebuttal adjustment discussed previously, the correct allocation based on actual test year cost is \$310,479.74

Q. PLEASE RESPOND TO RUCO'S OTHER CRITICISMS OF CENTRAL OFFICE COST ALLOCATION?

RUCO's second criticism is without merit. On this point, RUCO asserts that it A. failed to explain or justify the increase in management fees from its affiliates. RUCO admits that that the new method of cost allocation was not through the test year. 75 The increase in the central office management fees during the test year is irrelevant because the increased fees were the result of increased costs. As I discussed previously, the actual central office cost pool for the test year is over \$5 million and the water division's allocated cost is much higher. It would appear that the management fee increase was justified since the allocated central office cost of \$310,479 is much higher than the test year fees of \$291,708.

RUCO's third and fourth criticisms also are without merit. I have examined the documentation and there is sufficient detail to determine the nature and amounts of the cost incurred by APT for the benefit of its subsidiaries.⁷⁶ A full description of the cost categories was also provided to RUCO.⁷⁷

⁷⁴ See Rebuttal Schedule C-2, page 11, Adjustment Number 11.

⁷⁶ See Company response to Staff data request JMM 5.5.

⁷⁷ See Company response to Staff data request JMM 5.3.

Q. ARE THERE ANY APPLICABLE REGULATORY GUIDELINES RELATING TO SUPPORTING ITS AFFILIATE COST ALLOCATIONS AND DID LPSCO FOLLOW THEM?

- A. Yes, and in my opinion, LPSCO complied with the applicable regulatory guidelines in supporting and detailing its affiliate cost allocations. Specifically, I believe that LPSCO complied with the National Association of Regulatory Utility Commissioners ("NARUC") 1996 Uniform System of Accounts for Class A Water Utilities, which states in paragraph 15 that "Each utility shall keep its accounts and records so as to be able to furnish accurately and expeditiously statements of all transactions with associated companies. The statements may be required to show the general nature of the transactions, the amounts involved therein and the amounts included in each account prescribed herein with respect to such transactions." In my opinion, LPSCO's affiliate cost documentation meets the NARUC System of Accounts. I also believe the LPSCO's affiliate cost allocation methodology meets the NARUC Guidelines for Cost Allocations and Affiliate Transactions.
- Q. PLEASE CONTINUE.
- A. Rebuttal adjustment 11 reflects the synchronization of interest expense with the Company's proposed rate base.

Rebuttal adjustment 12 reflects income taxes at Company's proposed rates.

- 1. Remaining Revenue and Expense Issues.
- Q. PLEASE IDENTIFY ANY REMAINING ISSUES IN DISPUTE WITH RUCO AND/OR STAFF.
- A. RUCO recommends that \$153,174 of allocated costs for the Water Division from Liberty Water (formerly AWS) be disallowed.⁷⁸ One of the reasons RUCO uses to

⁷⁸ M Rowell Dt. at 12.

justify the disallowance is that the Costs cannot be reconciled to the test year. However, these Liberty Water allocated costs do reconcile. Let me explain. In Table 3 on page 10 of Mr. Rowell's direct testimony, Mr. Rowell shows the total of the allocated contract services for the Water Division from Liberty Water from as \$1,520,179. In addition, Mr. Rowell shows the Recon fees to 4-factor for the Water Division as \$728,574 which is also found in Table 3 but located on page 11 of his testimony. The two amounts total \$2,248,753 which is the amount recorded in the test year for the Water Division. Below is the detail of the test year recorded costs: 80

Account/Description		<u>Amount</u>
8600-2-0100-69-5200-0110 Contractual Services-AWS		510,643.02
8600-2-0100-69-5200-0120 Admin Allocation – AWS		728,574.18
8600-2-0100-50-5200-0110 Contractual Services-AWS		1,009,535.94
	Total	2,248,753,14

In the Company direct filing, these costs were trued-up to the new cost allocation methodology cost of \$1,942,519 by a reduction to the test year expenses of \$306,234.81 The \$1,942,519 is the same amount contained the documentation provided to RUCO.82

Q. WHAT OTHER REASON DOES RUCO PROVIDE FOR RECOMMENDING DISALLOWANCE OF \$153,714 OF ALLOCATED LIBERTY WATER (AWS) COSTS?

⁷⁹ *Id*.

⁸⁰ See Company work paper file "Item #23 LPSCO Income Statement Comp by Segment 2005 2006 2007 2008.xls" provided in response to Staff data request JMM 2-10.

⁸¹ See Direct Schedule C-2, page 12, Adjustment Number 11.

⁸² See also Company response to RUCO data request MJR 3.3(b).

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A.

PLEASE COMMENT ON DIFFERENCES BETWEEN THE PARTIES ON Q. RATE CASE EXPENSE.

That the Company did not provide an explanation of what the allocations were.⁸³

However, RUCO was provided an explanation of costs and how the various types

At this stage of the proceeding both the Company and Staff are proposing rate case A. expense of \$210,000 for the water division and the same amount for wastewater. This is consistent with the Company's original estimate of a total of \$420,000 for the entire case. However, Staff is recommending an amortization period of five years and an annual level of expense in the test year of \$42,000.85 Mr. Michlik justifies his amortization period because the Company has not filed a case in nine vears. 86 However, as Mr. Sorensen testifies, that is not likely to happen again. 87 This places authorized rate case expense at risk for non-recovery if the Company were to come in before Staff's amortization period has passed.

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⁸³ M Rowell Dt. at 12.

⁸⁴ See Company response to RUCO MJR 2.5.

85 Michlik Dt. at 18.

86 *Id*

87 Sorensen Rb. at 10.

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Q. WHAT ABOUT RUCO'S RECOMMENDATION ON RATE CASE EXPENSE?

- A. RUCO is recommending a \$50,000 annual level of rate case expense.⁸⁸ However, I do not know how RUCO determined that amount since there is no testimony or a detail schedule showing the computation. As a result, I am unable to respond at this time except to say that amount is too low.
 - B. Wastewater Division Revenue and Expenses.
- Q. WOULD YOU PLEASE DISCUSS THE COMPANY'S WASTEWATER DIVISION PROPOSED ADJUSTMENTS TO REVENUES AND EXPENSES AND IDENTIFY ANY ADJUSTMENTS YOU HAVE ACCEPTED FROM STAFF AND/OR RUCO?
- A. The Company rebuttal adjustments for the Wastewater Division are detailed on Rebuttal Schedule C-2, pages 1-14. The rebuttal income statement with adjustments is summarized on Rebuttal Schedule C-1, page 1-2.

Rebuttal adjustment 1 increases depreciation expense. Depreciation expense is lower primarily due to the impacts of the Company proposed rebuttal adjustments to plant-in-service. The difference in depreciation expense compared to RUCO is primarily due to a difference in the respective parties proposed PIS. The difference in depreciation expense compared to Staff is primarily due to a difference in the respective party's computation of CIAC amortization. Staff uses a composite depreciation rate for all depreciable PIS where as the Company uses account specific rates for the plant accounts funded with CIAC. The Company disagrees with Staff's method of computing amortization in the instant case.

⁸⁸ See RUCO Water Schedule 4, page 1 of 15.

Q. WHY?

A. Composite depreciation rates should be used when the CIAC amounts have not been specifically identified with the plant accounts. Historically, the Company has tracked its CIAC with the specific plant accounts and there is no reason to change the practice of using the depreciation rates for these plant accounts to amortize CIAC in the instant case.

Q. PLEASE CONTINUE.

Rebuttal adjustment number 2 increases property tax expense and reflects the rebuttal proposed revenues. All the parties are in agreement on the method of computing property taxes. This method utilized the ADOR formula and inputs two years of adjusted revenues plus one year of proposed revenues. I computed the property taxes based on the Company's proposed revenues, and then used the property tax rate and assessment ration that was used in the direct filing.

Rebuttal adjustment number 3 removes contractual services costs (Aerotek) that are related to BMSC's cost of service.

Rebuttal adjustment number 4 removes meals and entertainment expenses from miscellaneous expense. The adjustment reflects the Company acceptance of Staff proposed adjustment for meals and entertainment expenses. RUCO has not proposes a similar adjustment.

Rebuttal adjustment number 5 reduces bad debt expense reflecting a normalized level of bad debt expense proposed by Staff.⁹⁰ RUCO has not proposed a similar adjustment.

Rebuttal adjustment number 6 reduces contractual services –other expense by \$33,705 for Company proposed capitalized expenses. RUCO makes a similar

⁸⁹ Michlik WW Dt. at 18.

⁹⁰ *Id.* at 19.

adjustment for capitalized expenses totaling \$17,124.⁹¹ RUCO also proposes to remove from expense an additional \$16,582 for non-recurring expenses.⁹² RUCO'S total adjustment of \$33,706 (\$17,124 plus \$16,582) is substantially the same as the Company's adjustment of \$33,705. However, RUCO also proposes to remove \$19,784 for effluent clean-up⁹³, \$16,428 for grounds maintenance and sewer line cleaning⁹⁴ which the Company disagrees. The Company believes the \$19,784 and the \$16,428 reflect the nature and level of expense the Company expects to incur on a going forward basis and therefore the costs should be allowed in operating expense.

Adjustment number 7 reduces contractual services – other for rate case costs which are already included in rate case expense. RUCO has proposed a similar adjustment⁹⁵ and the Company is substantial agreement with the Company.

Adjustment number 9 reduces contractual services – other which reflect a portion of the \$3,128 RUCO seeks to remove from expense. 96

Q. WHAT ARE THE EXPENSES INCLUDED IN RUCO'S PROPOSED ADJUSTMENT THAT THE COMPANY AGREES TO REMOVE?

A. The Company agrees to remove the allocated portion of expenses related to a holiday party and the costs for Diamondbacks games. RUCO seeks to exclude the costs of dues and memberships, business publications, and travel. The Company believes these are prudent and necessary expenses.

⁹¹ See RUCO Wastewater Schedule 3, page 5 of 19, lines 1-8.

⁹² See RUCO Wastewater Schedule 3, page 5 of 19, lines 11-15.

⁹³ See RUCO Wastewater Schedule 3, page 5 of 19, lines 18-20.

⁹⁴ See RUCO Wastewater Schedule 3, page 5 of 19, lines 23-26.

⁹⁵ See RUCO Wastewater Schedule 3, page 5 of 19, lines 29-32.

⁹⁶ See RUCO Water Schedule 3, page 7 of 15.

A. Rebuttal adjustment 10 reflects an increase to the allocated affiliate central office costs and reflects actual cost incurred by the central office for the test year of \$5,125,785. ⁹⁷ The central office costs reflected in the actual test year expenses were based on a budget of approximately \$3,950,800. The Company's adjustment is detailed on Rebuttal Schedule C-2, page 10.

Q. DID THE COMPANY REMOVE THE COSTS OF CHARITABLE CONTRIBUTIONS, ENTERTAINMENT EXPENSES, AWARDS, AND IRS PENALTIES FROM ITS CENTRAL OFFICE ALLOCATION POOL?

A. Yes. The Company removed \$191,828 of costs Staff recommends to be disallowed in operating expenses. 98

Q. PLEASE COMMENT ON STAFF'S ADJUSTMENT FOR ALLOCATED CENTRAL OFFICE COSTS?

A. Staff is recommending an expense level of \$1,595 based on an adjusted central office allocation pool of \$113,224 and an allocation factor of 1.41 percent. Staff's allocation method and analysis of the benefits to LPSCO's water and wastewater divisions is flawed. Staff eliminates 97 percent of the central office cost allocation pool before allocating the remaining 3 percent to LPSCO's water and wastewater divisions. As I testified in the pending BMSC rate case, APIF incurs the central office cost for the benefit of its subsidiary businesses. APIF provides management, financial, audit, tax, legal resources, and corporate governance for all of its subsidiary businesses that would otherwise be incurred if they were a stand-alone business. In other words, but for the subsidiary business APIF would not have

⁹⁷ See Company response to Staff data request JMM 5.5.

⁹⁸ Michlik WW Dt. at 16.

central office costs. But the real benefit under the APIF model is there enormous economies of scale that are achieved.

Q. PLEASE COMMENT ON RUCO'S ADJUSTMENT TO ALLOCATED CENTRAL OFFICE COSTS?

- A. RUCO recommends disallowing all the central office costs for the wastewater division. RUCO bases its recommended disallowance of central office cost allocation on several factors. First, RUCO could not reconcile the Company indicated central office cost allocation of \$267,462 with the amounts based on the Company's billings for central office costs of \$191,850. Second, RUCO asserts that during the test year, the Company increased its central office cost billings without providing any explanation. Third, RUCO again asserts the central office cost invoices do not contain sufficient detail. Finally, RUCO claims that the Company has not sufficiently explained the central office costs to determine whether the services provided are necessary for the provision of service of LPSCO.
- Q. PLEASE RESPOND TO RUCO'S CRITICISMS OF THE CENTRAL OFFICE COST ALLOCATION?
- A. With respect to the first criticism, RUCO is correct that the actual wastewater division central office costs for the test year were \$191,850. The \$267,462 was based on a 2008 calendar year budget. As noted above, RUCO's inability to reconcile those numbers stems from RUCO's failure to understand that those

⁹⁹ M Rowell Dt. at 13.

¹⁰⁰ *Id*.

¹⁰¹ *Id*.

¹⁰² *Id*.

¹⁰³ *Id*.

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¹⁰⁶ *Id*.

numbers apply to different time periods. As also noted, the \$267,462 amount is for central office costs for the 2008 calendar year (January-December 2008), whereas the \$191,850 amount is for central office costs incurred during the test year (September 2007-October 2008). Based on the Company's rebuttal adjustment discussed previously, the correct allocation based on actual test year cost is \$343,688.¹⁰⁴ I have responded to the other criticisms earlier in my testimony and will not repeat that testimony here. I would note that, again, I believe that LPSCO's documentation in support of its affiliate cost allocations meets the applicable NARUC guidelines as mentioned above.

O. PLEASE CONTINUE.

Rebuttal adjustment 10 reflects the synchronization of interest expense with the A. Company's proposed rate base.

Rebuttal adjustment 11 reflects income taxes at Company's proposed rates.

1. Remaining Revenue and Expense Issues.

RUCO recommends that \$102,116 of allocated costs for the wastewater division A. from Liberty Water (formerly Algonquin Water Services or AWS) be disallowed. 105 One of the reasons RUCO uses to justify the disallowance is that the Costs cannot be reconciled to the test year. 106 However, these Liberty Water allocated costs do reconcile. Let me explain. In Table 3 on page 10 of Mr. Rowell's direct testimony, Mr. Rowell shows the total of the allocated contract services for the Wastewater Division from Liberty Water as \$1,260,574. addition, Mr. Rowell shows the Recon fees to 4-factor for the wastewater division as \$785,716 which is also found in Table 3 but located on page 11 of his testimony.

¹⁰⁴ See Rebuttal Schedule C-2, page 10, Adjustment 9.

¹⁰⁵ M Rowell Dt. at 12.

The two amounts total \$1,746,290 which is the amount recorded in the test year for the Wastewater Division. Below is the detail of those recorded costs: 107

Account and Description		<u>Amount</u>
8600-2-0200-69-5200-0110 Contractual Services-AWS		539,992.43
8600-2-0200-69-5200-0120 Admin Allocation – AWS		485,716.12
8600-2-0200-50-5200-0110 Contractual Services-AWS		720,581,27
	Total	1 746 289 82

In the Company direct filing, these costs were trued-up to the new cost allocation methodology cost of \$2,092,975 by an increase to the test year expenses of \$346,685.¹⁰⁸ The \$2,092,975 is the same amount contained the documentation provided to RUCO.¹⁰⁹ I also would restate what I noted above. RUCO claims that LPSCO did not explain exactly what costs were included in the "Recon fees to 4 factor" and, therefore, Mr. Rowell disallowed \$102,116 in costs. Again, however, RUCO and Mr. Rowell simply did not understand that the "Recon fees to 4 factor" was a reconciliation and true-up of the 4 factor formula to the entire test year. I also would restate that, in his deposition, Mr. Rowell agreed that it is appropriate for LPSCO to true up and reconcile the 4 factor data to the actual costs incurred.

A. Rebuttal to PebbleCreek on Accounting Issues.

Q. HAVE YOU REVIEWED THE DIRECT TESTIMONY BY PHIL ZEBLISKY ON BEHALF OF PEBBLECREEK?

A. Yes. Most of Mr. Zeblisky's testimony addresses developer background information that is not pertinent to my testimony. Besides, those issues along with the hook up fees have been moved into a second phase.

¹⁰⁷ See Company work paper file "Item #23 LPSCO Income Statement Comp by Segment 2005 2006 2007 2008.xls" provided in response to JMM 2-10.

¹⁰⁸ See Direct Schedule C-2, page 12, Adjustment Number 11.

 $^{^{109}}$ See also Company response to RUCO data request MJR 3.3(b).

Q.	SO WHAT	ASPECTS	OF MR.	ZEBLISKY'S	TESTIMONY	WILL	YOU
	ADDRESS	IN THIS PH	ASE?				

- A. First, Mr. Zeblisky requisitions a number of plant classifications. Second, he suggests a deduction to rate base for out of test year advance-in-aid of construction.
- Q. DO YOU AGREE WITH MR. ZEBLISKY THAT CERTAIN PLANT CLASSIFICATIONS ARE IN ERROR?
- A. No, and neither does Staff's experienced engineer, Marlin Scott, Jr.
- Q. SO WHAT IS ZEBLISKY'S ISSUE?
- A. Mr. Zeblisky believes that certain plant cost should have been recorded differently and if those plant reclassifications were made it would facilitate a more accurate computation of a hook-up fee.¹¹⁰
- Q. DO YOU AGREE THAT THE ACCURACY OF A HOOK-UP FEE COMPUTATION IS IMPEDED BY ALLEGED MISCHARACTERIZED PLANT IN THE COMPANY'S PLANT LEDGERS?
- A. No. Hook-up fees are based on projected costs of facilities, not recorded costs.
- Q. PLEASE CONTINUE.
- A. Mr. Zeblisky also suggests that the alleged mischaracterized plant may have an impact on the accuracy of rates.¹¹¹ For example, he states that believes that if the \$7 million costs indicated by Mr. Sorenson for the Palm Valley Reclamation Facility ("PVWRF") were recorded entirely as treatment and disposal equipment that rates would be higher because this plant account has a higher depreciation rate.¹¹² However, without a complete analysis of all plant accounts, project costs and records for the PVWRF this is pure speculation.

¹¹⁰ Direct testimony of Philip Zeblisky ("Zeblisky Dt.") at 18.

^{25 | 111} *Id*.

¹¹² *Id*.

Q. WOULD ALL COSTS OF A WASTEWATER TREATMENT FACILITY PROJECT BE RECORDED IN THE WASTEWATER TREATMENT AND DISPOSAL EQUIPMENT PLANT ACCOUNT?

- A. In my experience, no. Generally these projects include the costs of buildings, concrete structures, lift stations, pumping equipment, fencing, special collecting structures, odor control units, etc., and the costs could be recorded in a variety of different plant accounts depending on how detailed one might be in allocating the cost of the wastewater treatment project. Technically, you could record the entire cost in one or two plant accounts. In the end, the composite depreciation rate based on a mix of plant costs that are recorded to four or five different plant accounts may not be materially different than the composite depreciation rate based on a mix of plant costs that are recorded to one or two different plant accounts. In other words, the resulting depreciation expense would not be materially different nor would rates. Again, at this point, all Mr. Zeblisky offers is pure speculation.
- Q. DO YOU HAVE ANY FURTHER COMMENTS?
- A. Yes. I would add that the depreciation rates that are generally employed, including those in the instant case, are based on the typical and customary estimated useful life of the underlying plant and equipment. Truly accurate depreciation rates are not achieved unless a costly depreciation study is prepared by an engineer because the useful life of plant is dependent upon many different factors, some of which are geographically specific.
- Q. PLEASE RESPOND TO MR. ZEBLISKY'S SUGGESTION THAT OVER \$4.8 MILLION OF PAYMENTS MADE TO LPSCO FOR FUTURE PLANT CAPACITY UNDER A REFUNDABLE LINE EXTENSION AGREEMENT SHOULD BE INCLUDED IN THE COMPANY'S RATE BASE?

A. PebbleCreek witness, Mr. Zeblisky, believes that approximately \$4.8 million of AIAC payments made by a developer after the end of the test year should be considered in rate base in the instant case. Mr. Zeblisky ignores the fact that the payment is for future plant capacity and future customers. Until the plant is recognized in rate base then neither should the AIAC. Otherwise, a mismatch in rate base, revenue, and expenses will occur. This is a basic principle of rate making.

Q. HASN'T THE COMMISSION RECENTLY INCLUDED UNEXPENDED AIAC AND CIAC INTENDED FOR FUTURE PLANT IN RATE BASE FOR H2O, INC.?

A. Yes. 113 In my opinion the Commission's decision is seriously flawed. My testimony in the recent H2O rate case explains my position and I will not repeat it here. Put simply, it is bad and improper ratemaking to include in rate base AIAC and CIAC when the associated plant is not included. Having said that, I believe the circumstances in the instant case are different than the circumstances the Commission relied on in the H2O case. First, the payment was received by the Company after the end of the test year and was not recorded on the books as of the end of the test year. I believe the Commission's "rule" as applied in the H2O rate case to include all CIAC and AIAC recorded at the end of the test year does not apply. Neither Staff nor the Commission sought to include CIAC or AIAC payments received by H2O after the end of the test year in the H2O rate case. Second, the monies received were for a specific purpose from a specific developer to build treatment capacity for a mall project. After receiving the monies, the

¹¹³ In the Matter of the Application of H2O, Inc. for a Determination of the Current Fair Value of Its Utility Property and for an Increase in Its Water Rates and Charges for Utility Services, Docket No. W-02234A-07-0557.

developer postponed the mall project for what could be several years. The developer has not sought a refund presumably because it would have to pay higher costs in the future. Fourth, the monies received are not the collection of a hook-up fee under which a utility largely controls which backbone facilities it constructs with the money. Fifth, the Company will refund the monies if faced with the risk of its imputation of \$4.8 million of AIAC into the Company's wastewater division rate base without the corresponding PIS. Mr. Sorenson discusses this further in his rebuttal testimony.

V. RATE DESIGN.

A. Water Division Rate Design.

Q. WHAT ARE THE COMPANY'S PROPOSED RATES FOR WATER SERVICE?

A. The Company's proposed rates are:

MONTHLY SERVICE CHARGES

15	5/8" x 3/4" meters	\$10.32
16	3/4" Meters	\$26.32
17	1" Meters	\$43.86
18	1 1/2" Meters	\$54.08
19	2" Meters	\$66.56
20	3" Meters	\$133.12
21	4" Meters	\$208.00
22	6" Meters	\$416.00
23	8" Meters	\$499.20
24	10" Meters	\$956.80
25	12" Meters	\$1,248.00
26	Construction Water - Hydrants	By meter size

1	Bulk Water	By meter size	
2	COMMODITY RATES		
3	5/8" and 3/4" Meters - Res.	1 to 3,000	\$ 1.22
4		3,001 to 9,000	\$ 1.82
5		Over 9,000	\$ 2.42
6	5/8" and 3/4" Meters – Com., Irr.	1 to 10,000	\$ 1.82
7		Over 10,000	\$ 2.42
8	1" Meters	1 to 20,000	\$ 1.82
9		Over 20,000	\$ 2.42
10	1 ½" Meters	1 to 30,000	\$ 1.82
11		Over 30,000	\$ 2.42
12	2" Meters	1 to 50,000	\$ 1.82
13		Over 50,000	\$ 2.42
14	3" Meters	1 to 120,000	\$ 1.82
15		Over 120,000	\$ 2.42
16	4" Meters	1 to 180,000	\$ 1.82
17		Over 180,000	\$ 2.42
18	6" Meters	1 to 360,000	\$ 1.82
19		Over 360,000	\$ 2.42
20	8" Meters	1 to 670,000	\$ 1.82
21		Over 670,000	\$ 2.42
22	10" Meters	1 to 940,000	\$ 1.82
23		Over 940,000	\$ 2.42
24	12" Meters	1 to 1,248,000	\$ 1.82
25		Over 1,248,000	\$ 2.42
26	Construction (Hydrant) Water	All gallons	\$ 2.42
CDAIC	50		•

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A.

Q. HAVE THE COMPANY CHANGED IT PROPOSED RATE DESIGN?

A. Yes. The Company added a new customer class "Bulk Water". Currently the Company delivers water the City of Goodyear (8 inch meters) and occasionally delivers water to Valley Utilities Water Company (4 inch meter). The Company believes that a separate rate should exists for these other water providers that reflects the usage and design to meet these water provider needs. As I will discuss later, while Goodyear will be charged a lower commodity rate, it is more than covering its cost of service.

Q. PLEASE COMMENT ON THE PROPOSED RATE DESIGNS OF STAFF AND RUCO?

Like the Company, Staff is proposing an inverted three tier design for the smaller metered residential customers (5/8 inch and 3/4 inch) and an inverted two tier design for the small commercial metered customers (5/8 inch and 3/4 inch) as well as 1 inch and larger metered customers (all classes) with the exception of construction water. Staff break-over points are different than the Company's. However, like the Company, Staff's break-over points increase with meter size. The first tier commodity rate of the small commercial metered customers and 1 inch and larger metered customers is the same as the second tier of the small residential metered customers. The second tier of the small commercial metered customers and 1 inch and larger metered customers is the same as the third tier of the small residential metered customers. Other than the bulk water rate that the Company is now proposing, the primary difference in the rate designs is in the commodity rate charged and the level of revenue recovery from each class of customer.

It is difficult to be too specific on Staff's proposed rate design at this time with respect to the impact on the various customer class or on how Staff's proposed

rates perform under a cost of service study because Staff's proposed rates do not produce Staff's recommended revenue requirement. It appears that Staff's proposed rates produce too little revenue - on the order of \$750,000 to \$800,000. I notified Staff of my concern nearly a month ago (November 6, 2009), but Staff has not responded with either a correction or an explanation. Based on Staff's proposed rates it would appear that Staff's proposed rate design shifts revenue recovery away from the 3/4 inch residential class to the larger metered customer classes. I am confident I would find the 3/4 inch residential class under Staff's proposed rate design is heavily subsidized by the other customer classes. I hesitate at this time to provide the specific indications of the level of subsidization based on a cost of service study because of the problem with Staff's proposed rates mentioned earlier. However, at this point I believe the high subsidization exists because Staff's proposed rate design contains a relatively low monthly minimum and a relatively low first-tier commodity rate for the 3/4 inch metered residential customers. This will result in a revenue shift away from the 34 inch residential customers to the other customer classes. Recognizing that Staff's proposed rates do not produce its recommended revenue requirement, Staff's proposed rates for the ³/₄ inch residential class provides approximately 25% of the revenues from all customer classes. Under the present rate design, the 3/4 inch customers provide more than 30% of revenues.

Staff admits that a characteristic of its proposed rate design is that it serves as a supplementary life-line rate. However, in my opinion, Staff's places too much emphasis on keeping rates low for the 5/8 inch and 3/4 inch residential classes in its proposed rate design. Rates which are primarily focused on affordability to

¹¹⁴ Direct testimony of Pedro M. Chaves ("Chaves Dt.) at 4.

one or more classes of customers should not be the primary consideration of good rate design. Rate designs should achieve certain objectives within the of context water availability, socioeconomic status and concerns of customers, who are the major customer classes and major customers, and customer and utility concerns, among others. ¹¹⁵ In my experience, small residential customers are typically subsidized to varying degrees. But, a balance between the needs of the customers and the needs of the utility should be achieved. As suggested by the American Water Works Association, common objectives of rate designs for utilities and their customers are:¹¹⁶

- 1. yielding necessary revenue in a stable and predictable manner;
- 2. minimizing unexpected changes in customer bills;
- 3. discouraging wasteful use and promoting justified uses;
- 4. promoting fairness and equity;
- 5. avoiding discrimination;
- 6. maintaining simplicity, certainty, convenience, and freedom from controversy.

Q. WHAT ARE LIFE-LINE RATES?

A. A life-line rate typically provides an initial low, below cost rate block for a specified volume of water. Life-line rates are intended to provide a minimal or essential volume of water service to those residential customers considered to be unable to afford a minimal level of service at normal rates. ¹¹⁷ I do not believe low life-line like rates should be made available to all smaller metered residential customers as is proposed by Staff.

¹¹⁵ Principles of Water Rates, Fees, and Charges. American Water Works Association. 2000. pp

¹¹⁶ *Id*.

¹¹⁷ Id. at 326.

Q. ISN'T THE COMPANY PROPOSING A LOW-INCOME TARIFF?

A. Yes, and Staff supports it. This is to address affordability issues for some residential customers. The Company is proposing a low income tariff which provides discounts to qualified low income residential customers. Of course, these customers will be subsidized by all other customers. Putting that aside, low-income discounts are used for the same purpose as life-line block rates - to provide a cost for rate payers who are considered unable to afford water service under the basic rate design.

Q. DO YOU HAVE ANY FURTHER COMMENTS ON STAFF'S RATE DESIGN?

A. No. Again, I hesitate to comment on Staff's rate design because of the problem I mentioned earlier. Hopefully, Staff will address this issue by the time it files surrebuttal in the instant case so that I can be more specific as to how its rate design performs under a cost of service study.

Q. HAS STAFF AND OR RUCO COMMENTED ON THE COMPANY'S COST OF SERVICE STUDY?

A. No. I can only conclude they agree entirely with my findings.

Q. PLEASE COMMENT ON RUCO'S RATE DESIGN?

A. RUCO is proposing an inverted three tier design for the smaller metered residential and commercial customers (5/8 inch and ¾ inch) and an inverted two tier design for the small irrigation metered customers (5/8 inch and ¾ inch) as well as 1 inch and larger metered customers (all classes) with the exception of construction water. RUCO's break-over points are different than the Company's. However, like the Company, RUCO's break-over points increase with meter size. The first tier

¹¹⁸ *Id*.

commodity rate of the 1 inch and larger metered customers (except irrigation) is the same as the second tier of the small residential and commercial metered customers. The second tier of the 1 inch and larger metered customers (except irrigation) is the same as the third tier of the small residential and commercial metered customers. The irrigation customers have different commodity rates for both tiers but they are similar to the commodity rates of the non irrigation 1 inch and larger meters.

Like Staff, I find that RUCO's proposed rates do not produce its recommended revenue requirement. I discovered this recently and will contact RUCO to try to resolve the issue. Unlike Staff's proposed rate design, RUCO's proposed rate design produces too much revenue — on the order of \$1.4 million to \$1.5 million. As with the Staff proposed rate design, It is difficult to be too specific on RUCO's proposed rate design at this time with respect to the impact on the various customer class or on how RUCO's proposed rates perform under a cost of service study because of this problem. However, like Staff's proposed rate design, I believe a high level of subsidization exists for the ¾ inch metered residential class under RUCO's proposed rate design because of the relatively low monthly minimums and low first tier commodity rate. Again, recognizing that RUCO's proposed rates do not produce its recommended revenue requirement, RUCO's proposed rates for the ¾ inch residential class provides approximately 27% of the revenues from all customer classes. Under the present rate design, the ¾ inch customers provide more than 30% of revenues.

1. Cost of Service Study.

Q. HAVE YOU UPDATED YOUR COST OF SERVICE STUDY?

A. Yes. I have updated my cost of service study to reflect the changes to rate base, revenues and expenses contained in the Company's rebuttal filing.

Q. WHAT MODIFICATIONS HAVE YOU MADE?

- A. I have revised the G-1 summary schedule to reflect income taxes at present rates rather than at proposed rates. I have done this in response to the City of Litchfield Park witness's comments on my study. 119
- Q. DOES THE REVISED G-1 RESULTS CHANGE YOUR CONCLUSIONS IN YOUR DIRECT TESTIMONY REGARDING THE SMALLER METERED CUSTOMERS BEING SIGNIFICANTLY SUBSIDIZED BY THE LARGER METERED CUSTOMERS UNDER THE PRESENT RATE DESIGN?
- A. No. Nor would it change my conclusion that under a cost based rate design the monthly minimums would be much higher, and the commodity rates much lower, than under the present rate design. Further, it would not change my concerns about setting rates below the indicated cost based monthly minimums and setting the commodity rates above the cost of cost based commodity rates.
- Q. HAVE YOU CHANGED THE ALLOCATION FACTOR FOR THE POWER COSTS IN RESPONSE TO MR. DARNALL'S TESTIMONY?
- A. No. Mr. Darnell suggests that the pumping power cost be allocated 5% to demand and 95% to commodity. ¹²⁰ It is my professional judgment that pumping power is directly related to the gallons pumped so 100% of the cost should be allocated to pumping power. Unless the pumps are running there are no pumping power costs. Mr. Darnall disagree and I on this point, but in the end the allocation factor change would have only a minor impact on the cost of service results and would not cause me to change the proposed rate design as a result.

¹¹⁹ Direct testimony of Richard L. Darnall ("Darnall Dt") at 3.

¹²⁰ Darnall Dt. at 6.

Α.

HAVE YOU MODIFIED YOU DEMAND ALLOCATION FACTORS?

No. Mr. Darnall and I can agree to disagree on his point that my demand allocation factors are faulty. Mr. Darnall uses an estimate of peak demand factors based on the Company's master plan prepared several years ago and based on information that may have been captured several years earlier than that. In any case, the basis of his factor is no less an estimate than mine and, in my opinion, less appropriate because he does not consider maximum peak day and maximum peak hour data. I have based my demand factors on the relative flows of the larger meters compared to a 5/8 inch meter and therefore reflect relative maximum potential demand placed on the system by the various customer classes. My demand allocation factors do in fact have a direct relationship to the size of the investment required to serve the various classes of customers. Relative flow factors are often used to set hook-up fees for larger metered customers, including the Commission Engineering staff, because of the direct relationship to the amount of investment required.

Having said that, in order to develop accurate maximum daily and/or daily demand data which would serve as the basis for developing appropriate allocation factors, demand meters must be installed and the data must be reviewed, interpolated, and expanded to fit the entire class of customers. Because of the significant financial resources required, most utilities do not have this type of information. Eventually, the Company may purchase and install the systems required to capture this data (automated meter data gathering and integration and SCADA), but sadly it is not and this data is not available.

¹²¹ Darnall Dt. at 6.

O. PLEASE DISCUSS THE RESULTS OF YOUR UPDATED STUDY.

- As shown on the G-2 schedule, the ³/₄ inch metered residential class (the largest Α. customer class) stills provide the lowest return at 7.94% at proposed rates and, therefore, continues to pay less than their cost of service¹²² and to be subsidized by the larger metered customers under proposed rates. The 1 inch, 1 ½ inch, 2 inch, and the 4 inch metered classes provide returns of 10.47%, 18.59%, 16.71%, 23.91%, respectively. The 8 inch metered class (Goodyear) provides the highest return of 75.43%.
- WHY DIDN'T YOU PROPOSE A SPECIAL MUNICIPAL WATER TARIFF Q. IN YOUR DIRECT TESTIMONY AS SUGGESTED BY MR. DARNELL ON PAGE 7 OF HIS TESTIMONY?
- Because it was assumed that the City of Goodyear ("Goodyear") would no longer A. be a customer. In its rebuttal, the Company has put the revenues from Goodyear back into its revenues. But, the Company remains concerned about its revenue stability and earnings as Goodyear may leave the system in the next year or so. The revenue loss from Goodyear's departure will have a significant financial impact on the Company and likely require another rate case.

В. Wastewater Division Rate Design.

- **PROPOSED FOR** WHAT **COMPANY'S** RATES ARE THE Q. WASTEWATER SERVICE?
- 21 A. The Company's proposed rates are:

\$ 48.21 Monthly Residential Service 22 23

\$ 44.76 Multi-Unit Housing - Monthly Per Unit

Commercial:

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¹²² To pay full cost of service a customer class must achieve the required return. In the instant case, the Company is proposing an 11% rate of return based on its weighted average cost of capital.

1		Small Commercial - Monthly Service	\$ 81.54
2		Measured Service:	
3		Regular Domestic:	
4		Monthly Service Charge	\$ 45.64
5	,	Rate Per 1,000 Gallons of Water	\$ 3.99
6		Restaurants, Motels, Grocery Stores &	
7		Dry Cleaning Establishments: (1)	
8		Monthly Service Charge	\$ 45.64
9		Rate Per 1,000 Gallons of Water	\$ 5.32
10		Wigwam Resort:	
11		Monthly Rate - Per Room	\$ 44.76
12		Main Hotel Facilities - Per Month	\$1,772.50
13		Schools - Monthly Service Rates:	
14		Elementary Schools	\$1,205.30
15		Middle Schools	\$1,418.00
16		High Schools	\$1,418.00
17		Community College	\$2,197.90
18		Effluent	Market Rate
19	Q.	PLEASE COMMENT ON THE DIFFERENCE	ES BETWEEN THE PARTIES
20		ON THE WASTEWATER RATE DESIGN.	
21	A.	The Company and Staff propose similar rate designation	gns and apply their respective rate
22		increase evenly across all customer classes. The	e rate schedule was missing from
23		the RUCO filing but I assume RUCO did the sam	e thing.
24	Q.	DO THE STAFF AND RUCO RATES S	SUFFER FROM THE SAME
25		PROBLEM YOU IDENTIFIED IN THEIR RI	ESPECTIVE WATER RATES?
26	A.	For Staff, the answer is yes. Staff's proposed w	vastewater rates do not produce its

recommended revenue requirement. Staff rate produce revenues which are short by about \$120,000. I cannot answer this question for the RUCO proposed wastewater rates. I am unable to check the RUCO proposed rates because as I noted previously the RUCO testimony does not appear to contain a rate schedule for the wastewater division.

Q. DOES RUCO PROPOSE AN EFFLUENT RATE NOT BASED ON MARKET RATES?

- A. Yes. 123 RUCO proposes a rate of \$1.50 per 1,000 gallons suggesting that the rates the Company current charges are excessively low. 124
- Q. DOES RUCO OFFER ANY EVIDENCE THAT THE COMPANY'S EFFLUENT RATES ARE EXCESSIVELY LOW?
- A. No.
- Q. DO YOU FIND THE \$1.50 PER THOUSAND GALLONS EXCESSIVE?
- A. Absolutely. RUCO's rate translates to nearly \$490 an acre foot. That's four times the cost of untreated Central Arizona Project water. It is also more than double the cost of pumping groundwater. The golf courses to which the Company delivers effluent can pump their own groundwater from their own wells and will if they are required to pay the rate RUCO proposes. Further, it more than double the highest market rate the Company is currently able to charge effluent customers. RUCO's effluent rate proposal if adopted would mean that the Company would no longer be able dispose of the significant amounts of effluent generated by its wastewater treatment plants and would have to seek much more costly means of disposal. Finding alternative method of disposing of effluent will take time and significant capital investment. In the interim the Company will have no place to dispose of

¹²³ S Rowell Dt. at 26.

¹²⁴ *Id*.

|

effluent. One alternative might be the use of recharge wells. This assumes that the Company can find suitable land within close proximately to the wastewater treatment plants and can get the required permits and approvals. In any case, in the pending Far West Water and Sewer rate case¹²⁵, for example, I computed a cost of at least \$1.08 per thousand gallons for dispose of effluent via vadose wells (recharge wells). I suspect the costs will be higher for LPSCO because land for placing the vadose wells would be more expense in Phoenix as compared to Yuma, and there would likely have to be more vadose wells to recharge the higher volume of effluent produced by LPSCO.¹²⁶

Q. DOES THAT CONCLUDE YOUR DIRECT TESTIMONY?

A. Yes.

¹²⁵ See the direct testimony of Thomas J. Bourassa in Docket No. WS-03478A-0454 at 18-19.

¹²⁶ LPSCO has approximately two times the number of customers as Far West.

TJB-RB1 (Rate Base – Phase I)

Job Invoice

August 20, 2001

To: LPSCO V	Water Co.		
Address: 111	W. Wigwam Blvd.		
Qty	Material	Unit	Amount
	205 Honeysuckle		\$15,000.00
	5 new water services 1" Backhoe, labor, sawcut, Materials	Truck, Tools-4/0, 000 -	Ten working
		707020	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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	Insurance, Sales Tax	f, † 4, 000 = */9 \$15,000	•
	Insurance, Sales Tax	\$15,000 Remaining balance \$4000.00	7, 000 NT
	Insurance, Sales Tax	f, † 4, 000 = */9 \$15,000	7,000 NI 9-24-4
	Insurance, Sales Tax	\$15,000 Remaining balance \$4000.00	7, 000 NT
ork ordered by:	Insurance, Sales Tax	\$15,000 Remaining balance \$4000.00	7,000 NI 9-24-4

Job Invoice

Yahweh Cont 7019 W. Geor Glendale, Az		August	
To: LPSCO V	Vater Co.		
Address: 111	W. Wigwam Blvd.		
Qty	Material	Unit	Amount
	205 HONEYSUCKLE	\$400	0.00
	New 2" water line to wigwam outlet 5 new water services 1" Backhoe, labor, sawcut, Materials, Tru	ck, Tools	
	Insurance, Sales Tax		
		Remainding balanc \$4000.	
		APPR BY DATE AMOUNT APPR. \$ 5 COMMENTS New ((1000) (1000) (1000)
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	PAYMEN		ND. • MESA, AZ 85210 • TEL. (480) 92 VAY • TUCSON, AZ 85714 • TEL. (520		P.O. Box		TURF IRRIGATI
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36JZ32414		3 3		2X2 NPT TAPPING S			279,00

INVOICE AMOUNT

14943.84 100-000-1160-00 Mech Equipment Rehab
14943.84 For Town well Rehab

14943,34

SIGNATURE

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PRINT NAME: _

WEIGHT	-5,084	iBS.
LEASE INITIAL ONE	OF THE FOLL	OWING BOXES
customer Checked	d Order	

Justomer Refused to thack Order

TERMS & CONDITIONS OF SALE: By acceptance of goods, buyer agrees to the following terms and conditions of sale. Payment terms are as noted above. Past belances will be subject to service charges of 1½% per month (18% per annum). Accounts with belances owed in excess of 60 days or which have exceeded t established credit limit may be placed on credit hold. If payment is not made when due, buyer agrees to pay all actual costs of collection, including all attorney collection fees incurred by Turf thrigation & Water Works. Returned medchandise will not be accepted without prior approval of Turf thrigation & Water W. Supply. A minimum 15% restocking charge will be made on accepted returned items. SPECIAL ORDER merchandise is not returnable and not cancelable. Truf Irrigation & Water Works personnel may, as a convenience to buyer, assist in loading material onto buyer's vehicle or equipment; however, buyer eares

DØ2



1233 East Camelback Road F.O. Box 7709 Phoenix, Arizona 95011-7709 Telephone (602) 279-3232 www.houseofcourtesy.com

PAY FROM THIS

SOLD TO

LITCHPIELD PARK SERVICE COMPANY 111 W WIGWAN BLVD SUITE B LITCHPIELD PARKE 85340 DATE 08/13/02

YOUR ORDER NO. 083328

STOCK NO. 025425

INVOICE NO.

711118

CONTROL NO.

711118

TERMS

NET 30

INVOICE

VIN: 1GCCS14W228263042

2002

CHEVROLET SIG PICKUP

INVOICE:
SALES TAX:
TIRE TAX:
DOC FEE:
LICENSE FEE:
REBATE/CASH DWN:

16, 164.53

- 5,00

••--

305, 93.

1, 250, 00

15, 225.46

TOTA DUEL 100-000-1022-00 15,225 The

15, 235, 46

11/8/02 BB

TJB-RB2 (Rate Base – Phase I)

System: 11/10/09 10:59:21 AM

CARBTROL Corporation

DOCUMENT INQUIRY REPORT Sales Order Processing

Page:

User ID: Kellie

Ranges: From: Document Number 28331 Customer ID First To: 28331

Last

Document Date First Batch ID First Document Type First Last

Master Number First

User Date: 11/10/09

Last Last

Include: History

* Voided

Document Number Type Type ID

92647-1 28331 - ORD STDORD

Pacific Environmental Resource 3,658

Sorted By: Document Number/Document Type

Date Batch ID

Subtotal Customer PO Number

Customer Name - Master No. Trade Discount Freight Miscellaneous

Tax ~

1/10/02 INV03/11/02

\$35,125.00 31-KMT1191

\$0.00 \$2,125.00 \$0.00 \$0.00 \$38,250.00

Total Documents:

TJB-RB3 (Rate Base – Phase I)

LITCHFIELD PARK SERVICE COMPANY SEWER DIVISION DOCKET NO. WS-0428A-01-0487 & W-01427A-01-0487

SURREBUTTAL SCHEDULE RDN-3

ORIGINAL COST RATE BASE

	ONIONAL COOT NA							
			[A]		[B]		-	[C]
	<u></u>				ORIGINAL CO	ST		
LINE	· ·		COMPANY		STAFF			STAFF AS
NO	DESCRIPTION	1	AS FILED	ΑĮ	DJUSTMENTS	REF	l	ADJUSTED
1	Gross Utility Plant in Service	\$	9,110,164		3,300,241	1,2	\$	12,410,405
2	Less:					*		
3	Accumulated Depreciation		758,143		622,885	3		1,381,028
4	Net Utility Plant in Service		8,352,021	\$	2,677,356		\$	11,029,377
	Less:				the state			
5	Contribution In Aid of Construction		0		2,070,191			2,070,191
6	Less Amortization of CIAC		0		488,918			488,918
7	Net CIAC		. 0		1,581,273			1,581,273
	Less:							
8	Advances In Aid of Construction		. 0		. 0			0
9	Deferred Income Taxes		353,513		•			353,513
10	Total Deductions		353,513		1,581,273			1,934,786
	Diver							
4.4	Plus:		4 000 040		(4.000.040)	4		0
11	CWIP		1,230,049		(1,230,049)	4		0
12	Allowance for Working Capital		84,968		(2,187)	5		82,781
13	Total Rate Base	<u>\$</u>	9,313,525	\$	(136,153)		\$	9,177,372

BOURASSA REBUTTAL WATER SCHEDULES (Rate Base – Phase I)

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Computation of Increase in Gross Revenue Requirements As Adjusted

Exhibit Rebuttal Schedule A-1

Page 1

Witness: Bourassa

Fair Value Rate Base	\$	37,502,569
Adjusted Operating Income		(24,837)
Current Rate of Return		-0.07%
Required Operating Income	\$	4,125,283
Required Rate of Return on Fair Value Rate Base		11.00%
Operating Income Deficiency	\$	4,150,119
Gross Revenue Conversion Factor		1.6286
Increase in Gross Revenue Revenue Requirement		6,759,028
Adjusted Test Year Revenues Increase in Gross Revenue Revenue Requirement Proposed Revenue Requirement % Increase	\$ \$ \$	6,878,709 6,759,028 13,637,738 98.26%

	/0 IIICI Case							00.2070	
2	Customer Classification			Present <u>Rates</u>		Proposed Rates		Dollar Increase	Percent Increase
,	5/8 Inch	Residential	\$	7,929	\$	12,382	\$	4,453	56.16%
•	3/4 Inch	Residential	Ψ	2,023,567	•	4,687,168	Ψ	2,663,601	131.63%
,	1 Inch	Residential		1,986,898		4,526,700		2,539,802	127.83%
,	1.5 Inch	Residential		54,252		96,290		42,038	77.49%
ł	2 Inch	Residential		159,078		234,227		75,149	47.24%
à	4 Inch	Residential		19,356		32,030		12,675	65.48%
)	7	Subtotal	\$	4,251,079	\$	9,588,796	\$	5,337,717	125.56%
) •	5/8 inch	Commercial	\$	24,344	\$	40,954	\$	16,610	68.23%
3	3/4 Inch	Commercial	,	12,320		30,065		17,745	144.04%
	1 Inch	Commercial		31,023		71,401		40,379	130.16%
;	1.5 Inch	Commercial		64,158		113,680		49,522	77.19%
;	2 Inch	Commercial		394,253		586,940		192,688	48.87%
,	4 Inch	Commercial		64,990		108,554		43,564	67.03%
}	8 Inch	Commercial		17,579		31,839		14,260	81.12%
)	10 Inch	Commercial		-		-		-	0.00%
)		Subtotal	\$	608,665	\$	983,433	\$	374,768	61.57%
								-	0.00%
:	5/8 Inch	Irrigation	\$	36,970	\$	82,378	\$	45,407	
,	3/4 Inch	Irrigation		151,173		310,186		159,013	105.19%
	1 Inch	Irrigation		148,413		262,651		114,238	76.97%
,	1.5 Inch	Irrigation		908,626		1,504,279		595,653	65.56%
	2 Inch	Irrigation		104,340		180,169		75,829	72.67%
,	4 Inch	Irrigation						-	0.00%
		Subtotal	\$	1,349,523	\$	2,339,663	\$	990,140	73.37%
	Hydrant		_\$_	403,707	\$	455,597	\$	51,891	12.85%
	Subtotal Reve	nues before Annualization	\$	6,612,974	\$	13,367,490	\$	6,754,516	102.14%
	Revenue Annu			-		-		-	0.00%
	Miscellaneous I	Revenues		6,878,710		13,637,737		6,759,028	98.26%
	Reconciling Am								0.00%
•	Total of Water	Revenues (a)	\$	13,491,684	\$	27,005,227	\$	6,754,516	50.06%

SUPPORTING SCHEDULES:

Rebuttal B-1

Rebuttal C-1

Rebuttal C-3

Rebuttal H-1

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Summary of Rate Base

Exhibit

Rebuttal Schedule B-1

Page 1 Witness: Bourassa

Line <u>No.</u> 1		riginal Cost <u>Rate base</u>		air Value ate Base
2	Gross Utility Plant in Service Less: Accumulated Depreciation	\$ 73,705,658 9,027,020	\$	73,705,658 9,027,020
4	Less. Accumulated Depreciation	 3,027,020		3,021,020
5 6	Net Utility Plant in Service	\$ 64,678,638	\$	64,678,638
7	<u>Less:</u>			
8	Advances in Aid of			
9	Construction	22,336,975		22,336,975
10	Contributions in Aid of			
11	Construction	3,096,180		3,096,180
12				
13	Accumulated Amortization of CIAC	(860,706)		(860,706)
14				
15	Customer Meter Deposits	2,238,022		2,238,022
16	Deferred Income Taxes & Credits	448,160		448,160
17				
18				
19				
20	Plus:			
21	Unamortized Debt Issuance			
22	Costs	-		-
23	Deferred Reg. Assets	82,561		82,561
24	Working capital	-		-
25				
26				
27				
28		 		
29	Total Rate Base	\$ 37,502,569	\$	37,502,569
30				
31				
32				
33	SUPPORTING SCHEDULES:		RECAP SCHE	DULES:
34	Rebuttal B-2		Rebuttal A-1	
35	Rebuttal B-3			
36	Rebuttal B-5			
37				
38				

Litchfield Park Service Company - Water Division

Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments

39

SUPPORTING SCHEDULES:

Rebuttal B-2, page 2

Exhibit Rebuttal Schedule B-2 Page 1 Witness: Bourassa

RECAP SCHEDULES:

Rebuttal B-1

Gross Utility Plant in Service \$73,731,815 (26,157) \$73,705,658
4 Less: 5 Accumulated 6 Depreciation 7 9 8
Depreciation 9,107,141 (80,121) 9,027,020
Net Utility Plant
9 Net Utility Plant 10 in Service \$ 64,624,674 \$ 64,678,638 11 12 Less: 13 Advances in Aid of 14 Construction 24,583,673 (2,246,699) 22,336,975 15 16 Contributions in Aid of 17 Construction 3,104,068 (7,888) 3,096,180 18 19 Accumulated Amort of CIAC (860,706) - (860,706) 20 21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
10 in Service \$ 64,624,674 \$ 64,678,638 11 12 Less: 13 Advances in Aid of 14 Construction 24,583,673 (2,246,699) 22,336,975 15 16 Contributions in Aid of 17 Construction 3,104,068 (7,888) 3,096,180 18 19 Accumulated Amort of CIAC (860,706) - (860,706) 20 21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
12 Less: 13 Advances in Aid of 14 Construction 24,583,673 (2,246,699) 22,336,975 15 16 Contributions in Aid of (7,888) 3,096,180 17 Construction 3,104,068 (7,888) 3,096,180 18 (860,706) - (860,706) 20 - (860,706) - (860,706) 21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 - <td< td=""></td<>
Advances in Aid of Construction 24,583,673 (2,246,699) 22,336,975 Contributions in Aid of Construction 3,104,068 (7,888) 3,096,180 Accumulated Amort of CIAC (860,706) - (860,706) Customer Meter Deposits 68,685 2,169,337 2,238,022 Deferred Income Taxes & Credits 21,451 426,709 448,160 Plus:
15 16 Contributions in Aid of 17 Construction 3,104,068 (7,888) 3,096,180 18 19 Accumulated Amort of CIAC (860,706) - (860,706) 20 21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
16 Contributions in Aid of 17 Construction 3,104,068 (7,888) 3,096,180 18 19 Accumulated Amort of CIAC (860,706) - (860,706) 20 21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
17 Construction 3,104,068 (7,888) 3,096,180 18 19 Accumulated Amort of CIAC (860,706) - (860,706) 20 21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
18 19
19 Accumulated Amort of CIAC (860,706) - (860,706) 20 21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
20 21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
21 Customer Meter Deposits 68,685 2,169,337 2,238,022 22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
22 Deferred Income Taxes & Credits 21,451 426,709 448,160 23 24 25 26 Plus:
23 24 25 26 Plus :
24 25 26 Plus :
25 26 Plus :
26 Plus :
27 Unamortized Debt Issuance
28 Costs 134,528 (134,528) -
29 Deferred Reg. Assets 82,561 - 82,561
30 Working capital
31
32
33
34 35 Total \$ 37,924,592 \$ 37,502,569
36 Total <u>\$\sqrt{31,324,332}\$ \qquad \qqqqq \qqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqq \qqqqq \qqqq \qqqqq \qqqq \qqqq \qqqq \qqqqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqqqq \qqqq \qqq \qqqq \q</u>
37
38

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments

Exhibit Rebuttal Schedule B-2 Page 2 Witness: Bourassa

												•		
		Adjusted at end	- Ι	2 1		' ന	Protorma Adjustments 4 5	lustment	NI roj	91		7		Rebuttal Adjusted
Č	o Politica	of Test Year	Plant	Accumulated <u>Depr.</u>	sted	DIT	AIAC/CIAC		AIAC Reclass	Remove Security Dep	e posit <u>Issu</u>	Remove Debt Security Deposit Issuance Costs		at end of <u>Test Year</u>
5 🛣	vice	\$ 73,731,815	(26,157)	_									69	73,705,658
Less: Accum Depre	Less: Accumulated Depreciation	9,107,141		(80,121)	21)									9,027,020
⊡	Net Utility Plant in Service	\$ 64,624,674 \$	(26,157) \$	\$ 80,121	21 \$	1	ر ج	€		€9	€5		₩	64,678,638
ပ် နှဲ့ မြိ	Less: Advances in Aid of Construction	24,583,673					(8,677)		(2,238,022)					22,336,975
<u> సై</u> ర	Contributions in Aid of Construction (CIAC)	3,104,068					(7,888)	(8)						3,096,180
Acc	Accumulated Amort of CIAC	(860,706)												(860,706)
Oet Oet	Customer Meter Deposits Deferred Income Taxes & Credits	68,685 21,451				426,709	Œ	\$ 2,	\$ 2,238,022	89)	(68,685)			2,238,022 448,160
P C C S	Plus: Unamortized Finance Charges Deferred Reg. Assets Allowance for Working Capital	134,528 82,561										(134,528)		82,561
Total		\$ 37,924,592 \$	(26,157)	\$ 80,121	121 \$	(426,709)	9) \$ 16,565	55 8	,	89	68,685 \$	(134,528)	မှာ	37,502,569
SU Re	SUPPORTING SCHEDULES: Rebuttal B-2, pages 3-6				찖쬬	CAP SC	RECAP SCHEDULES: Rebuttal B-2, page 1							

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 1

Exhibit Rebuttal Schedule B-2 Page 3 Witness: Bourassa

Acct. No. Description 301 Organization Cost 302 Franchise Cost 303 Land and Land Rights 304 Structures and Improvements 305 Collecting and Improvements 306 Lake River and Other Intakes 307 Wells and Springs 308 Infiltration Galleries and Tunn 309 Supply Marins 310 Power Generation Equipment 311 Electric Pumping Equipment 311 Electric Pumping Equipment 320. Chemical Solution Feeders 330. Dist. Reservoirs & Standpipe 330. Pressure Tanks 331 Trans. and Dist. Mains 333 Services 334 Meters 335 Hydrants	Description Organization Cost Franchise Cost Franchise Cost Franchise Cost Structures and Improvements Collecting and Improvements Collecting and Improvements Wells and Springs Wells and Springs Wells and Springs Supply Mains Supply Mains Flectric Pumping Equipment Electric Pumping Equipment Water Treatment Equipment Water Treatment Equipment Chamical Solution Faeders		Post Test Year Plant	Plant Retirements (41,971)	Capitalized Expenses	Organization	Remove	Intentionally	Rebuttal
- 0 - 0	ost Rights Improvements Improvements Impounding Res. Other Intakes ags sries and Tunnels ition Equipment The Equip	00 69 93 93 93 93 93 93 93 93 93 93 93 93 93	Post Flant Plant	Plant Retirements (41,971)	Capitalized Expenses	Organization	Remove	Intentionally	
- 0 - 0	ost Rights Improvements Improvements Improvements Other Intakes ags aries and Tunnels	00 93 93 69	Plant	Plant Retirements (41,971)	Capitalized Expenses	Organization			Adjusted
	Rights Improvements Improvements Impounding Res. I Other Intakes ngs aries and Tunnels tion Equipment og Equipment int Equipment int Equipment int Equipment int Equipment	24,698,293 24,698,293 2,382,102 2,382,102	18,805	(41,971)	CXDenses	1	Office	Left	Original
	Rights Improvements Improvements Impounding Res. I Other Intakes ngs aries and Tunnels tion Equipment og Equipment of Equipment in Equipment in Equipment	24,698,293 24,698,293 - 2,382,102 202,269	18,805	(41,971)		21 000	Kent	Blank	Cost
	Rights Improvements Improvements Impounding Res. 1 Other Intakes ngs aries and Tunnels tion Equipment ng Equipment rin Equipment rin Equipment rin Equipment	1,284,595 24,698,293 2,382,102 202,269	18,805	(41,971)		200-			21,100
	Improvements Impounding Res. I Other Intakes ngs eries and Tunnels tion Equipment ng Equipment rif Equipment rif Equipment rif Equipment	24,698,293	18,805	(41,971)					1.284 595
	Impounding Res. 1 Other Intakes ngs eries and Tunnels tion Equipment ng Equipment rif Equipment rif Equipment rif Equipment rif Equipment	2,382,102	18,805				(7,072)		24,649,251
,	t Other Intakes ngs eries and Tunnels tion Equipment ng Equipment nt Equipment int Equipment int Equipment	2,382,102	18,805				•		•
	ngs eries and Tunnels tion Equipment ng Equipment nnt Equipment from Plant	2,382,102 - 202,269	18,805						•
	eries and Tunnels ion Equipment ng Equipment ent Equipment inf Plant	- - 202,269	18,805		11,389				2.393.491
	tion Equipment ng Equipment int Equipment ant Planter	202,269	18,805						
	iion Equipment ng Equipment int Equipment int Plant	202,269	18,805						•
	ng Equipment int Equipment int Plant		18,805						202 269
	int Equipment int Plant	948,213	18,805	(31,158)				-	917.055
	int Plant	1,337,824	18,805						1 337 824
	ion Faadare	1,866,965							1,885,770
	ווסנו ב-פסקסוים								
	s & Standpipe	430,644			8,600				439 244
	•								1001
	s								•
	t. Mains	28,929,171							28 929 171
		4,249,744							4 740 744
		4.138.752							4,249,744
		2.055,781							7,130,732
Backflow Prevention Devices	ention Devices	38,387							798 98
	d Misc. Equip.	265.281		(5.750)					30,307
	e and Fixtures	551,757		(2)					559,551
	d Software								10.1'100
	Equipment	177, 165							177 165
	ent .	31,711							31 711
	k Equipment	23,350							21,15
_	upment	•							000,03
	ed Equipment								•
	ns Equipment	119,710							110 710
	Equipment	. •							2
_	Plant	ı							•
		,							•
TOTALS	ı	\$ 73,731,815 \$	18,805 \$	\$ (628.87) \$	\$ 19,989	\$ 21,000 \$	\$ (7,072)		\$ 73,705,658
	i								
Adjusted Plant-in-Service per Direct	s per Direct								\$ 73,731,815
Increase (decrease) in Plant-In-Service	Plant-In-Service								\$ (26,157)
Adjustment to Plant-in-Service	Service								4000
SUPPORTING SCHEDULES	ULES 13.4								
Rebuttal B-2, pages 3.5 -3.16	-3.16								

Litchfield Park Service Company - Water Division

Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 1- B

Exhibit Rebuttal Schedule B-2 Page 3.1 Witness: Bourassa

Line			
No.			
1	Post Test Year Plant		
2			
3	Post Test Year Plant per Rebuttal	\$	1,885,770
4			
5	Post Test Year Plant per Direct	\$	1,866,965
6			
7	Increase (Decrease) in Plant-in-Service	_\$	18,805
8			
9			
10	Account 320.1 - Water Treatment Equipment	\$	18,805
11			
12			
13	See Staff Adjustment 2 Schedule JMM-W5		
14			
15			
16			

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 1- B

Exhibit Rebuttal Schedule B-2 Page 3.2 Witness: Bourassa

Line			
<u>No.</u> 1	Plant Retirements		
2			
3	304 - Structures and Improvements	\$	(41,971)
4	311 - Electric Pumping Equipment		(31,158)
5	339 - Other Plant and Miscellaneous Equipment		(5,750)
6			
7	Increase (Decrease) in Plant-in-Service	_\$	(78,879)
8			
9			
10	For related AIAC and CIAC see Rebuttal Schedule B-2, page 6		
11			
12			
13			
14			
15	See Staff Adjustment 1 Schedule JMM-W6 (from Exhibit MSJ Table H-1)		

Litchfield Park Service Company - Water Division

Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 1 - C Exhibit Rebuttal Schedule B-2 Page 3.3 Witness: Bourassa

Line			
<u>No.</u>			
1	Capitalized Expenses		
2			
3	307 - Wells and Springs - Hydro Controls and Pump Systems (clocks for wells)	\$ 1,114	
4	307 - Wells and Springs - Southwest Grd Wtr Consult. (well spacing evaluation)	1,380	
5	307 - Wells and Springs - Southwest Grd Wtr Consult. (well impact analysis)	4,823	
6	307 - Wells and Springs - Southwest Grd Wtr Consult. (well rehabilitation)	 4,072	
7	Total For 307 - Wells and Springs	\$	11,389
8			
9	331 - Distrbution Mains - Narasimhan Consulting Services (Dist. Sys. Eval.)	_	8,600
10			
11	Total Capitalized Expenses	_\$	19,989
12			
13			
14	See Testimony		

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 1 - D

Exhibit Rebuttal Schedule B-2 Page 3.4 Witness: Bourassa

Line	
<u>No.</u>	
1	Remove Office Rent
2	
3	307 - Wells and Springs - Suncor Development Company (2002) \$ (7,072)
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
. 14	See Testimony

Exhibit Rebuttal Schedule B-2 Page 3.5

2001	<u>Deplace</u>			•	, 6	3,032		28 256	70,430	•	2751	11.478	3,085	90'5	•	7 334	+CC.	•	144 725	52,770	35,37	00,027	3,022	77	2 7AE	7,7	, 7	5		117	(4 666)	161	2	•		•
2001 Plant	Daniel Co	;	21,100		417.440	644,		1 543 674	ילים לי	•	140 878	455 602	153 107	167, 151		281 207	102,102	•	- 6 192 485	2 090 362	1 435 466	380 386	905,000	0,420	108 669	5	1,004	9	0 2 4 3	7	•	12 285	207/3			
2001 Salvage																																				
2001 Plant Refrements																																				
2001 Adjusted Plant Additions				•	3 441	,	•	930.425		•	71.728	35,008	70.887		•	2.531	; ;	•	1.337.228	182 991	174 224	67,203		•	7 827		900		2.586	} i	•	12.285	,	,	,	•
2001 Plant Adjustments																																				
2001 Plant Additions			• •	•	3 441	· ·	٠	930,425	. •	•	71,728	35,008	70,887	. •		2,531		•	1,337,228	182,991	174,224	67,203	,		7.827	. •	900		2,586	,	,	12,285				
2000 Accum. Debt.			• •		48 698	,		173,809	. •		i	94,255	(15,404)	•	•	111,824	. •	,	1,068,157	241,423	301,075	(23,090)	299	,	8.854	,	35	,	1,669	. '	4,665	•	•	,		
Plant At 12/31/2000		1100	9 .	671 103	114,008		٠	613,250	٠	•	69,151	420,594	82,310		•	278,676	•		4,855,257	1,907,362	1,261,241	322,184	8,426	. •	100,842	•	901		6,757		1	,				
Deprec. Rate After Nov-02		7000	%00.0 0.00	0.00%	3.33%	2.50%	2.50%	3.33%	6.67%	2.00%	5.00%	12.50%	3.33%	3.33%	20.00%	2.22%	2.22%	2.00%	2.00%	3.33%	8.33%	2.00%	6.67%	6.67%	6.67%	20.00%	20.00%	4.00%	5.00%	10.00%	5.00%	10.00%	10.00%	10.00%		
Deprec. Rate Before Nov-02		7000	%00.0 %00.0	0.00%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%		
		Description Organization Cost	Franchise Cost	Land and Land Rights	Structures and Improvements	Collecting and Impounding Res.	Lake River and Other Intakes	Wells and Springs	Infiltration Galleries and Tunnels	Supply Mains	Power Generation Equipment	Electric Pumping Equipment	Water Treatment Equipment	Water Treatment Equipment	Checmical Solution Feeders	Distribution Reservoirs & Standpipe	Storage tanks	Pressure Tanks	Transmission and Distribution Mains	Services	Meters	Hydrants	Backflow Prevention Devices	Other Plant and Miscellaneous Equipment	Office Furniture and Fixtures	Computers and Software	Transportation Equipment	Stores Equipment	Tools and Work Equipment	Laboratory Equipment	Power Operated Equipment	Communications Equipment	Miscellaneous Equipment	Other Tangible Plant	Rounding	
	Account	9 E	302	303	304	305	306	307	308	309	310	31	320	320.1	320.2	330	330.1	330.2	331	333	334	335	336	339	340	340.1	341	342	343	344	345	346	347	348		

Plant Held for Future Use TOTAL WATER PLANT

10,733,161 2,016,268 (See page 3.15) (See page 3.16)

Litchfield Park Service Company - Mater Division Plant Additions and Retirements

Exhibit Rebuttal Schedule B-2 Page 3.6

		Deprac. Rate Before	Deprec. Rate Affer	2002 Plant	2002 Plant	2002 Adjusted Plant	2002 Plant	2002 Salvaqe/Adi	2002 Plant	2002
		Nov-02	Nov-02	Additions	Adjustments	Additions	Retirements	A/D Only	Balance	Deprec.
Account	ı									
og ?	Description	,								
Ę	Organization Cost	0.00%	0.00%	112		112			21.212	•
302	Franchise Cost	%00.0	0.00%	•					. •	
303	Land and Land Rights	0.00%	0.00%			•			671.103	
304	Structures and Improvements	2.62%	3.33%	28,361	(7,072)	21,289			138 738	3 432
305	Collecting and Impounding Res.	2.62%	2.50%	•						
306	Lake River and Other Intakes	2.62%	2.50%			•			•	
307	Wells and Springs	2.62%	3.33%	292,355		292,355			1 836 030	45.274
308	Infiltration Galleries and Tunnels	2.62%	6.67%	,						
309	Supply Mains	2.62%	2.00%			•			•	,
310	Power Generation Equipment	2.62%	5.00%	•					140 878	3.970
311	Electric Pumping Equipment	2.62%	12.50%	84,962		84,962			540.564	17 151
320	Water Treatment Equipment	2.62%	3.33%	20,920		20,920			174 117	4 385
320.1	Water Treatment Equipment	2.62%	3.33%			•			•	} '
320.2	Checmical Solution Feeders	2.62%	20.00%	,		•				•
330	Distribution Reservoirs & Standpipe	2.62%	2.22%	3,598		3,598			284.805	7.320
330.1	Storage tanks	2.62%	2.22%	,		•				
330.2	Pressure Tanks	2.62%	5.00%	i		•				
331	Transmission and Distribution Mains	2.62%	2.00%	4,182,326		4,182,326			10.374.811	212 752
333	Services	2.62%	3.33%	405,108		405,108			2.495.460	61.431
334	Meters	2.62%	8.33%	532,234		532,234			1,967,699	52.678
335	Hydrants	2.62%	2.00%	344,649		344,649			734,036	14.427
336	Backflow Prevention Devices	2.62%	6.67%	2,607		2,607			11,034	288
339	Other Plant and Miscellaneous Equipment	2.62%	6.67%	•		٠				
340	Office Furniture and Fixtures	2.62%	6.67%	22,237		22,237			130,906	3.543
340.1	Computers and Software	2.62%	20.00%						•	
34	Transportation Equipment	2.62%	20.00%	44,164		44,164			45,665	959
342	Stores Equipment	2.62%	4.00%			•				
343	Tools and Work Equipment	2.62%	5.00%	952		952			10.295	277
344	Laboratory Equipment	2.62%	10.00%			٠			,	
346	Power Operated Equipment	2.62%	2.00%	•		•			•	,
346	Communications Equipment	2.62%	10.00%	1,476		1,476			13 761	421
347	Miscellaneous Equipment	2.62%	10.00%							į ,
348	Other Tangible Plant	2.62%	10.00%			,			٠	
	Rounding					•			٠	
						•			•	•

Plant Held for Future Use TOTAL WATER PLANT

2003	Oeprec.											7.044								•																	
2003 Plant	Datance		21,100	•	671 103	205,007	100,003	•	1 952 103		•	140.878	552 136	175 443	! 	•	287.392		,	11 020 363	2 498 683	2.531.718	1 327 668	13.898		149 205	,	45 665)	16.693		•	27 524		•	•	•
2003 Salvage	VIIIO CON																				=																
2003 Plant			_																		(6.100)																
2003 Adjusted Plant			(112	•	•	66.270		•	116,073	•	•	•	11,572	1,327	. '	•	2,587	•	•	645,552	9,323	564,019	593,633	2,865	•	18,299	. •	•	,	6.398	,	•	13.763	•	•	•	,
2003 Plant																																					
2003 Plant Adjustments			•	•	•	•	٠	•	•	•	•	•	2	•	•	•	•	•	,	629,134	•	61,481	586,662	•	•	•	٠	,	,	•	•	,	•	•			
2003 Plant Adiustments ⁵			e:			-			_				_								•	•	_			•				•			•				
2003 Plant Additions												•																									
Deprec. Rate After Nov-02			0.00%	0.00%	0.00%	3.33%	2.50%	2.50%	3.33%	6.67%	2.00%	5.00%	12.50%	3.33%	3.33%	20.00%	2.22%	2.22%	5.00%	2.00%	3.33%	8.33%	2.00%	6.67%	6.67%	6.67%	20.00%	20.00%	4.00%	5.00%	10.00%	5.00%	10.00%	10.00%	10.00%		
Deprec. Rate Before			%00.0	0.00%	%00.0	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%		
	in	Description	Organization Cost	Franchise Cost	Land and Land Rights	Structures and Improvements	Collecting and Impounding Res.	Lake River and Other Intakes	Wells and Springs	Infiltration Galleries and Tunnels	Supply Mains	Power Generation Equipment	Electric Pumping Equipment	Water Treatment Equipment	Water Treatment Equipment	Checmical Solution Feeders	Distribution Reservoirs & Standpipe	Storage tanks	Pressure Tanks	Transmission and Distribution Mains	Services	Meters	Hydrants	Backflow Prevention Devices	Other Plant and Miscellaneous Equipment	_	Computers and Software	Transportation Equipment	Stores Equipment	Tools and Work Equipment	Laboratory Equipment	Power Operated Equipment	Communications Equipment	Miscellaneous Equipment	Other Tangible Plant	Rounding	
	Account	No.	301	302	303	304	305	306	307	308	309	310	311	320	320.1	320.2	330	330.1	330.2	331	333	334	335	336	339	340	340,1	341	342	343	344	345	346	347	348		

Plant Held for Future Use TOTAL WATER PLANT

		Deprec.	Deprec. Pate	7000		7000	,		į	
		Before	After	Plant	Plant	2004 Adjusted Plant	Plant	2004 Salvage	2004 Plant	2004
		Nov-02	Nov-02	Additions		Additions	Retirements	A/D Only	Balance	Deprec.
Account	ų									
Ŋ.	Description									
301	Organization Cost	0.00%	0.00%	•	•	•			21 100	•
302	Franchise Cost	0.00%	0.00%	•	•					
303	Land and Land Rights	0.00%	0.00%	•	•	•			671 103	•
304	Structures and Improvements	2.62%	3.33%	334,449	(602)	333,848			538 855	12 385
305	Collecting and Impounding Res.	2.62%	2.50%	٠	•	. •			* '	20 1
306	Lake River and Other Intakes	2.62%	2.50%	•	•	٠				•
307	Wells and Springs	2.62%	3.33%	4,160	,	4.160			1 956 263	65.074
308	Infiltration Galleries and Tunnels	2.62%	6.67%	•	,	. '			700	7
309	Supply Mains	2.62%	2.00%	٠	,	•			•	
310	Power Generation Equipment	2.62%	2.00%	35,614		35,614			176 493	7 934
31	Electric Pumping Equipment	2.62%	12.50%	71,154	(199)	70,955			623.091	73.452
320	Water Treatment Equipment	2.62%	3.33%		•	•			175 443	5 842
320.1	Water Treatment Equipment	2.62%	3.33%	•	•				•	; ; ;
320.2	Checmical Solution Feeders	2.62%	20.00%	•					•	
330	Servoirs	2.62%	2.22%	117,773		117,773			405.165	7.687
330.1		2.62%	2.22%	•					. •	
330.2		2.62%	5.00%	•	•	,			,	
334	Transmission and Distribution Mains	2.62%	2.00%	8,813,416	h	8,813,416			19,833,779	308.541
333	Services	2.62%	3.33%	160,033	(4,734)	155,299			2,653,982	85.792
334	Meters	2.62%	8.33%	304,200	(280)	303,920			2,835,638	223,550
335	Hydrants	2.62%	2.00%	389	(511)	(122)			1,327,547	26.552
336	336 Backflow Prevention Devices	2.62%	6.67%	,	•	•			13.898	927
339	Other Plant and Miscellaneous Equipment	2.62%	6.67%	8,226	,	8,226			8.226	274
340	Office Furniture and Fixtures	2.62%	8.67%	110,448	٠	110,448			259,653	13.635
340.1	Computers and Software	2.62%	20.00%	•	•				•	
341	Transportation Equipment	2.62%	20.00%	28,224	•	28,224			73.889	11.955
342	Stores Equipment	2.62%	4.00%	٠					•	
343	Tools and Work Equipment	2.62%	5.00%	647	•	647			17 340	851
34 44	Laboratory Equipment	2.62%	10.00%	•	į	,			2	3.
345	Power Operated Equipment	2.62%	5.00%	•	•	•			•	
346	Communications Equipment	2.62%	10.00%	6,715	•	6,715			34.239	3.088
347	Miscellaneous Equipment	2.62%	10.00%			•				}
348	Other Tangible Plant	2.62%	10.00%		٠	,			•	•
	Rounding								•	•
						•			,	

Plant Held for Future Use TOTAL WATER PLANT

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		Deprec. Rate Before	Deprec. Rate After	2005 Plant	2005 Plant	2005 Adiusted Plant	2005 Plant	2005 Salvade	2005 Diant	4000
		Nov-02	Nov-02	Additions		Additions	Retirements	A/D Only	Ralance	2003
Account	ц								200	Napide.
No.	Description									
301	Organization Cost	%00:0	0.00%	•		•			21 100	
302	Franchise Cost	0.00%	0.00%						20.1	•
303	Land and Land Rights	0.00%	0.00%	•	•				671 103	
304	Structures and Improvements	2.62%	3.33%	26,680	(28,165)	(1,484)			537 371	17 010
305	Collecting and Impounding Res.	2.62%	2.50%	•		: !			ָרָי יַרָּי יַרָּייִי	n n ' - '
306	Lake River and Other Intakes	2.62%	2.50%	,					• 1	
307	Wells and Springs	2.62%	3.33%	16,313	(8.385)	7.927			1 064 190	2E 77E
308	Infiltration Galleries and Tunnels	2.62%	6.67%	. '					200	07,20
309	Supply Mains	2.62%	2.00%		,					
310	Power Generation Equipment	2.62%	5.00%	,	•	,			176 493	2 8 2 5
311	Electric Pumping Equipment	2.62%	12.50%	153,001	(8,399)	144,602			767 603	20,0
320	Water Treatment Equipment	2.62%	3.33%	13,084	(3,517)	9,567			185,030	00,924
320.1	Water Treatment Equipment	2.62%	3.33%		,				20.	0,000
320.2	Checmical Solution Feeders	2.62%	20.00%	,		,			•	•
330	Distribution Reservoirs & Standpipe	2.62%	2.22%	•					405 165	8 005
330.1	Storage tanks	2.62%	2.22%	,		•			20,00	000
330.2	Pressure Tanks	2.62%	5.00%	•		•				
331	Transmission and Distribution Mains	2.62%	2.00%	5,295,656		5.295 656			25 120 434	440 632
333	Services	2.62%	3.33%	50,131	(6.563)	43,568			2 697 550	80 103
334	Meters	2.62%	8.33%	544,240	(477)	543,763			3 379 401	258 856
335	Hydrants	2.62%	2.00%	14,198	(163)	14,036			1341.582	26,830
336	Backflow Prevention Devices	2.62%	6.67%		,				13 898	160,02
339	Other Plant and Miscellaneous Equipment	2.62%	6.67%	147,612	•	147,612			155 839	5.472
340	Office Furniture and Fixtures	2.62%	6.67%	2,918	٠	2,918			262 571	17.416
340.1	Computers and Software	2.62%	20.00%	٠					· ;) :
34	Transportation Equipment	2.62%	20.00%	(12,837)	•	(12,837)			61.052	13 494
342	Stores Equipment	2.62%	4.00%	•	•					, (°)
343	Tools and Work Equipment	2.62%	5.00%	472		472			17.811	870
344	Laboratory Equipment	2.62%	10.00%		,	•			2	j i
346	Power Operated Equipment	2.62%	5.00%	•	٠	•				
346	Communications Equipment	2.62%	10.00%	2,460	(1,394)	1,066			35 305	3.477
347	Miscellaneous Equipment	2.62%	10.00%		. '				20, 10	· ·
348	Other Tangible Plant	2.62%	10.00%		,					
	Rounding					•			•	

Plant Held for Future Use TOTAL WATER PLANT

Litchfield Park Service Company - Water Division Plant Additions and Retirements

Exhibit Rebuttal Schedule B-2 Page 3.10

506,300 92,174 297,941 27,338 927 10,697 21,262 8,825 96,112 5,999 3,436 8,957 12,453 - 891 2006 Deprec. 25,500,608 2,838,422 3,774,049 1,392,255 13,898 164,897 374,973 33,422 176,493 770,093 175,320 401,784 671,103 584,331 63,481 17,811 2,017,118 Balance 2006 Plant 2006 Salvage A/D Only Retirements 2006 Plant 2006 Adjusted Plant (3,381)371,174 140,872 394,647 50,673 9,059 112,402 Additions (3,381) Adjustments1 2006 Plant 371,174 141,273 394,851 50,673 9,059 112,402 Additions 2006 Plant 2.00% 13.50% 13.33% 2.03% 2.22% 2.22% 5.00% 6.67% 6.67% 6.67% 6.67% 6.67% 7.00% 4.00% 7.00% 10.00% 10.00% 0.00% 0.00% 0.00% 3.33% 2.50% 3.33% 6.67% Deprec. Rate After Nov-02 0.000%
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0. Deprec. Rate Before Nov-02 Backflow Prevention Devices Other Plant and Miscellaneous Equipment Office Furniture and Fixtures Transmission and Distribution Mains Distribution Reservoirs & Standpipe Collecting and Impounding Res. Infiltration Galleries and Tunnels Structures and Improvements Lake River and Other Intakes Power Generation Equipment Electric Pumping Equipment Water Treatment Equipment Power Operated Equipment Communications Equipment Miscellaneous Equipment Water Treatment Equipment Checmical Solution Feeders **Fools and Work Equipment** Transportation Equipment Computers and Software Land and Land Rights Laboratory Equipment Other Tangible Plant Wells and Springs Description Organization Cost Stores Equipment Pressure Tanks Franchise Cost Supply Mains Storage tanks Hydrants Services Meters

Plant Held for Future Use TOTAL WATER PLANT

Litchfield Park Barvice Company - Mater Division Plant Additions and Retirements

Exhibit Rebuttal Schedule B-2 Page 3.11

		Deprec. Rate Before	Deprec. Rate After	2007 Plant	2007 Plant	2007 Adjusted Plant	2007 Plant	2007 Salvage	2007 Plant	2007
		Nov-02	Nov-02	Additions		Additions	Retirements	A/D Only	Balance	Deprec.
Account	ı									
No.	Description Organization Cont	ò	900						;	
2	Olganicalion Cost	8.00.0	0.00%						21,100	٠
302	Franchise Cost	0.00%	%00.0	•	•	•			•	
303	Land and Land Rights	%00.0	0.00%	6,156	•	6,156			677,259	
304	Structures and Improvements	2.62%	3.33%	211,023	(99,915)	111,107			695,438	21.308
305	Collecting and Impounding Res.	2.62%	2.50%	•	•				•	•
306	Lake River and Other Intakes	2.62%	2.50%		•	•				
307	Wells and Springs	2.62%	3.33%	85,816	(166)	85,650			2,102,768	68 596
308	Infittration Galleries and Tunnels	2.62%	6.67%		. •	•				
309	Supply Mains	2.62%	2.00%	•	,	•				,
310	Power Generation Equipment	2.62%	2.00%	25,777	•	25,777			202,269	9.469
311	Electric Pumping Equipment	2.62%	12.50%	43,188	į	43,188			813,281	98.961
320	Water Treatment Equipment	2.62%	3.33%	20,801	(2,049)	18,751			194 071	6 150
320.1	Water Treatment Equipment	2.62%	3.33%	•	•	•			·	;
320.2	Checmical Solution Feeders	2.62%	20.00%			•			•	•
330	Distribution Reservoirs & Standpipe	2.62%	2.22%	2,340	(696)	1,371			403,154	8.935
330.1	Storage tanks	2.62%	2.22%	•	•	•				
330.2	Pressure Tanks	2.62%	5.00%	•	٠	٠				
331	Transmission and Distribution Mains	2.62%	2.00%	1,282,512	,	1,282,512			26,783,120	522,837
333		2.62%	3.33%	628,772	,	628,772			3,467,194	104,989
334	Meters	2.62%	8.33%	181,719	•	181,719			3,955,768	321,947
335	Hydrants	2.62%	2.00%	477,160	•	477,160			1,869,416	32,617
336	Backflow Prevention Devices	2.62%	6.67%	15,272	•	15,272			29.171	1,436
339	Other Plant and Miscellaneous Equipment	2.62%	6.67%	17,925	•	17,925			182,822	11,596
340	Office Furniture and Fixtures	2.62%	6.67%	٠					374,973	25.011
340.1	Computers and Software	2.62%	20.00%						. •	
341	Transportation Equipment	2.62%	20.00%	24,302	,	24,302			87,783	15,126
342	Stores Equipment	2.62%	4.00%	31,711	•	31,711			31,711	634
343	Tools and Work Equipment	2.62%	2.00%	,	•	•			17,811	891
344	Laboratory Equipment	2.62%	10.00%		٠	•			. •	
346	Power Operated Equipment	2.62%	5.00%	•	,	•			•	
346	Communications Equipment	2.62%	10.00%	•	(28)	(28)			33,394	3,341
347	Miscellaneous Equipment	2.62%	10.00%		,	•				
348	Other Tangible Plant	2.62%	10.00%		•	•			,	
	Rounding					,			•	
						•			•	•

Plant Held for Future Use TOTAL WATER PLANT

3,054,474 (103,128) 2,951,346

Exhibit Rebuttal Schedule B-2 Page 3.12

Sate Rate		to Sep. Jan. to Sep.		ance Deprec.																																	
Rebuttal Rebuttal Rebuttal Rebuttal Affer Depired. Jan to Sep. Jan to Sep. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>28</td> <td>4</td> <td>. 4</td> <td></td>							•				•	•					•					28	4	. 4													
Oegy rec. Deprise Late Late Late Late Late Late Late Lat		Jan. to Sep. 2008	Salvage	(A/D Only)																																	
Peprec. Deprec. Deprec. Jan. to Sep. Jan.																																					
Rebundance Deprec. Jan. to Sep.		Jan. to Sep. 2008	Adjusted Plant	Additions	•	•	607 337	23 995 784	•	•	290,723	1	•	•	134,932	1,143,753	•	•	27,489	•	•	2,154,651	782,550	182,984	186,365	9,217	82,459	176,784	•	89,382	. '	5,539	. •	•	86,316	•	•
Oeprec. Deprec. Deprec. Jan. to Sep. Jan. Rate Rate 2008 20 Before After Plant Plant Improvaments 0.00% 0.00% 0.00% Improvaments 2.62% 2.50% - Instruction ment 2.62% 2.00% - Instruction Mains 2.62% 2.00% - Instruction Devices 2.62% 2.00% - Instruction Equipment 2.62% 2.00% - Instruction Equipme	Rebuttal	Jan. 10 Sep. 2008	Capitalized	Expenses																																	
Deprec. Deprec. Jarate Rate Rat	5 5 5 5	Jan. 10 Sep. 2008	Plant	Adjustments																								•	•	,	•	,	•				
Deprec. Depr	of co	2008 2008	Plant	Additions	•	•	607,337	24,060,112	•	٠	281,259	•	•	•	134,932	1,150,701	•	•	27,600	٠	•	2,146,051	783,007	182,984	186,383	9,217	82,459	175,784		89,382	•	5,539	•	•	87,102		
oost I Rights Impounding Res. Introverments Impounding Res. Introverments Impounding Res. Introverments Impounding Res. Introverments Introverments Impounding Res. Introverments Introv	G	Rate	After	Nov-02	0.00%	0.00%	0.00%	3.33%	2.50%	2.50%	3.33%	6.67%	2.00%	5.00%	12.50%	3.33%	3.33%	20.00%	2.22%	2.22%	5.00%	2.00%	3.33%	8.33%	2.00%	6.67%	6.67%	6.67%	20.00%	20.00%	4.00%	2.00%	10.00%	5.00%	10.00%	10.00%	10.00%
Deacxiption Organization Cost Franchise Cost Land and Land Rights Structures and Improvements Collecting and Improvements Collecting and Improvements Collecting and Improvements Collecting and Other Intakes Wells and Springs Infitration Galleries and Tunnels Supply Mains Power Generation Equipment Water Treatment Equipment Water Treatment Equipment Checrical Solution Feeders Distribution Reservoirs & Standpipe Storage Tanks Transmission and Distribution Mains Services Meters Hydrants Backflow Prevention Devices Other Plant and Miscellaneous Equipment Office Luniture and Extures Computers and Software Transportation Equipment Tools and Work Equipment Tools and Work Equipment Follores Equipment Communications Equipment Power Operated Equipment Communications Equipment Communications Equipment Communications Equipment Communications Equipment Communications Equipment Communications Equipment Diner Tangible Plant	Carre	Rafe	Before	Nov-02	%00:0	0.00%	0.00%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%	2.62%
Account Mo. 101 101 101 101 101 101 101 101 101 10					 Organization Cost	Franchise Cost	Land and Land Rights	Structures and Improvements	Collecting and Impounding Res.	Lake River and Other Intakes	Wells and Springs	Infiltration Galleries and Tunnels	Supply Mains	Power Generation Equipment	Electric Pumping Equipment	Water Treatment Equipment	Water Treatment Equipment	Checmical Solution Feeders	Distribution Reservoirs & Standpipe	Storage tanks	Pressure Tanks	Transmission and Distribution Mains	Services	Meters	Hydrants	Backflow Prevention Devices	Other Plant and Miscellaneous Equipment	Office Furniture and Fixtures	Computers and Software	Transportation Equipment	Stores Equipment	Tools and Work Equipment	Laboratory Equipment	Power Operated Equipment	Communications Equipment	Miscellaneous Equipment	Other Tangible Plant

Plant Held for Future Use TOTAL WATER PLANT

71,819,888 1,349,366 1,885,770 73,705,658 PTY Plant \$
Total B-2 Plant 7 ¹ Affiliate Profit

2,397,759 607,171 1,058,888 74,519 3,493 5,746 55,534 -9,212 2005 149,512 35,609 1,948,127 518,068 800,031 47,828 2,566 274 38,118 22,115 140,517 73,270 375,486 21,700 264,629 3,728 2004 2003 60,885 60,885 310,411 13,766 191,178 (2,114) 1,639,586 432,276 576,481 21,276 132,830 1,539 24,483 10,159 1,425,634 355,224 389,080 659 807 2002 55,161 247,339 --6,722 122,884 (7,934) 126,479 15,141 1,026 1,212,882 293,793 336,402 (13,768) 519 2,751 105,733 (12,319) 119,158 11,598 Year End Accumulated Depreciation by Account 67 2001 1,068,157 241,423 301,075 (23,090) 299 8,854 4,665 94,255 (15,404) 111,824 2000 0.00% 0.00% 0.00% 3.33% 5.50% 5.00% 12.50% 2.00% 2.22% 2.00% 2.22% 2.00% Deprec. Nov-02 After 0.00%
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Plant Held for Future Use TOTAL WATER PLANT

2,016,268	2,312,652	2,740,959	3,418,332	4,265,874	5,325,76
					-

Exhibit Rebuttal Schedule B-2 Page 3.14

		Deprec	Deprec	Year End Accommutated	at at ad		
		Rate Before	Rate	Depreciation by Account	by Account		
		Nov-02	Nov-02	2006	2007	2008	
Account							
Νο	Description						
39	Organization Cost	0.00%	0.00%	•		•	
305	Franchise Cost	0.00%	0.00%	•		•	
303	Land and Land Rights	0.00%	0.00%		•	•	
304	Structures and Improvements	2.62%	3.33%	108,516	129,824	404,869	
305	Collecting and Impounding Res.	2.62%	2.50%			. •	
306	Lake River and Other Intakes	2.62%	2.50%	٠		•	
307	Wells and Springs	2.62%	3.33%	507,050	575,646	631,793	
308	infiltration Galleries and Tunnels	2.62%	6.67%	•	•		
309	Supply Mains	2.62%	2.00%			•	
310	Power Generation Equipment	2.62%	5.00%	39,349	48,818	56,403	
311	Electric Pumping Equipment	2.62%	12.50%	4	546,626	598,038	
320	Water Treatment Equipment	2.62%	3.33%		21,879	41,009	
320.1	Water Treatment Equipment	2.62%	3.33%			. •	
320.2	Checmical Solution Feeders	2.62%	20.00%			•	
330	Distribution Reservoirs & Standpipe	2.62%	2.22%	158,469	167,404	174,345	
330.1	Storage tanks	2.62%	2.22%	•			
330.2	Pressure Tanks	2.62%	5.00%	•	•		
331	Transmission and Distribution Mains	2.62%	2.00%	2,904,060	3,426,897	3,844,803	
333	Services	2.62%	3.33%	699,345	804,334	669'006	
334	Meters	2.62%	8.33%	1,356,829	1,678,776	1,931,628	
335	Hydrants	2.62%	2.00%	101,857	134,474	163,913	
336	Backflow Prevention Devices	2.62%	6.67%	4,420	5,856	7,546	
339	Other Plant and Miscellaneous Equipment	2.62%	6.67%		28,039	33,497	
340	Office Furniture and Fixtures	2.62%	6.67%	76,796	101,807	124,987	
340.1	Computers and Software	2.62%	20.00%		,	•	
341	Transportation Equipment	2.62%	20.00%	48,062	63,189	83,060	
342	Stores Equipment	2.62%	4.00%	•	634	1,586	
343	Tools and Work Equipment	2.62%	5.00%	5,451	6,342	7,113	
344	Laboratory Equipment	2.62%	10.00%		,	,	
346	Power Operated Equipment	2.62%	5.00%		•	•	
346	Communications Equipment	2.62%	10.00%	12,648	15,989	21,730	
347	Miscellaneous Equipment	2.62%	10.00%	•	,		
348	Other Tangible Plant	2.62%	10.00%	•	,	,	
	Rounding			,	,	,	

Plant Held for Future Use TOTAL WATER PLANT

Litchfield Park Service Company - Water Division Plant Reconciliation to Prior Rate Case

Exhibit Rebuttal Schedule B-2 Page 3.15

Balz Co Per 2	Balance Per Company Per 2000 Filing <u>Before Adi.</u>	CIAC <u>Plant</u>	Staff Rmnd Adj	Intentionally Left <u>Blank</u>	Intentionally Left <u>Blank</u>	Prior Case Adjusted <u>Plant</u>	Staff Rmnd Adj not <u>recorded</u>	Intentionally Left <u>Blank</u>	Initial <u>Balance</u>
	1		21.100			21.100			21 100
	•								}
	671,103					671,103			671,103
	114,008					114,008			114,008
	•								
	,								
	604,794		8,456			613,250			613,250
						•			•
	•					•			
	69,151					69,151			69,151
	405,375	15,219				420,594			420,594
	82,310					82,310			82,310
	•								
	278,676					278,676			278,676
	•								
	•								
	3,887,812	808,880	158,565			4,855,257			4,855,257
	1,755,960	151,402				1,907,362			1,907,362
	1,208,923	29,899	22,419			1,261,241			1,261,241
	269,249	52,935				322,184			322,184
	8,426					8,426			8,426
	. 007								•
	100,01					100,642			100,842
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	6,757					6,757			6,757
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	3,404,200	00000	20,00	•	•	10,733,101		,	10,733,161

Rebuttal Schedule B-2

Page 3.16 Exhibit

Litchfield Park Service Company - Water Division A/D Reconciliation to Prior Rate Case

241,423 301,075 (23,090) 1,669 4,665 -173,809 94,255 (15,404) 8,854 48,698 299 111,824 1,068,157 Initial Balance Left Blank 241,423 301,075 (23,090) 1,669 4,665 8,854 -173,809 94,255 (15,404) 35 48,698 299 111,824 1,068,157 Case Adjusted A/D Prior Intentionally Intentionally Intentionally Blank Left Blank Blank Left 425,723 (48,737) 101,309 (67,581) (7,810) (113) (11,427) 27,270 (29,005) (1,094)4,665 65,774 563,256 73,871 Computed Prior Case Depr Adj 1,453,012 642,434 290,160 199,766 44,491 16,663 99,938 46,049 1,392 149 11,427 66,985 13,601 Company Per 2000 Filing <u>Before Adi.</u> **Balance Per** Other Plant and Miscellaneous Equipment Fransmission and Distribution Mains Distribution Reservoirs & Standpipe Infiltration Galleries and Tunnels Collecting and Impounding Res. Structures and Improvements Power Generation Equipment **Backflow Prevention Devices** Lake River and Other Intakes Office Furniture and Fixtures Electric Pumping Equipment Communications Equipment Water Treatment Equipment Checmical Solution Feeders Power Operated Equipment **Fools and Work Equipment** ransportation Equipment Miscellaneous Equipment Computers and Software Water Treatment Plants Laboratory Equipment Land and Land Rights Other Tangible Plant Stores Equipment Capacity Reserve Wells and Springs Organization Cost Pressure Tanks Franchise Cost Supply Mains Storage tanks Description Hydrants Services Meters 302 303 304 305 306 307 307 310 311 320.2 330.2 330.2 330.2 330.2 330.2 330.2 330.2 330.2 330.2 330.2 330.2 340.1 344 347 348

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 2

Exhibit Rebuttal Schedule B-2 Page 4 Witness: Bourassa

E Rebuffal	,	Left		,	•		17 404,869	,	,	64 631,793	•	ı	- 56,403	479 598,038	351 41,009	•	1	- 174,345	1	,	က		805 1,931,628	•			125 124,987		- 83,06(1,586	311,7		, , ,	- 21,730	•	•	000 200 8 - \$ 0	•	\$ 9,107,141		\$ (80,121)	\$ (80,121)	
O	A/D Differnce to		Office Rent Balance per B-2	•		(12,145)	(1,449)		•				•	•		•					4,	4		7-													(1 449) \$	* (2)					
B Denreciation	On		Expense Plant Off	•	•	•	•	•	•	142	•	•	ı		•	•	1	•	٠	•	65	,	1	ı	•	. (0	1	•	•	•	ı	ı	•	1	•	•	\$ 202 \$ 6	3					
∢	73	Plant	Retirements	•			272 (41,971)	•	•	- 287			56,403 -	,717 (31,158)	40,658	•	•	174,345 -	•	,	,162	896,049	,823 -	162,873	7,510	,247 (5,750)	124,862	•	83,060	1,586	7,110	•	,	- 21,730	1		78 879) \$	•					
	Adjusted	Accum.	Depr.			12,145		Res.	(es	631,587				w							3,840,162	968	1,930,823	162,					83								\$ 0 107 141		per Direct		vice		
Annum datad Denteriation	nujared Depreciation	ئد	_•	-	_					Wells and Springs					Water Treatment Equipment			Dist. Reservoirs & Standp	Storage tanks			3 Services				9 Other Plant and Misc. Equip.		_		••	,		5 Power Operated Equipment			8 Other Langible Plant	SISTOT	-0.55	Adjusted Accumulated Deprecaition per Direct		Increase (decrease) in Plant-in-Service	Adjustment to Plant-in-Service	SUPPORTING SCHEDULES
. .	1 Accur	Acct	4 No.				8 304		10 306							.,	18 320.2				22 331							.,						35 346	36 347		2 22	n (42 응

Litchfield Park Service Company - Water Division

Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 2 - A

13 14 15 Exhibit Rebuttal Schedule B-2 Page 4.1 Witness: Bourassa

Line <u>No.</u> 1	A/D Plant Retirements		
2 3 4 5	304 - Structures and Improvements 311 - Electric Pumping Equipment 339 - Other Plant and Miscellaneous Equipment	\$	(41,971) (31,158) (5,750)
6 7 8	Increase (Decrease) in Plant-in-Service	_\$	(78,879)
9 10 11 12			

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 2 - B

Exhibit Rebuttal Schedule B-2 Page 4.2 Witness: Bourassa

Line <u>No.</u> 1	A/D on Capitalized Plant					
2		Depr.	Original	Yr		
3	De contration	Rate	Cost	<u>Factor</u>	Depre	ciation
4	Acct. Decsription	3.33% \$	11,389	0.375	\$	142
5	307 Wells and Springs	2.00%	8,600	0.375	•	65
6	331 Trans. and Dist. Mains	2.00%	0,000	0.575		00
7						
8					œ.	207
9	Increase (Decrease) in Plant-in-Service				\$	207
10						
11						
12						
13						
14	SUPPORTING SCHEDULE					
15	Rebuttal B-2, page 3.3					
16						
17						

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 2 - C

Exhibit Rebuttal Schedule B-2 Page 4.3 Witness: Bourassa

Line <u>No.</u>						
1	A/D on Removed Capitalized Office Rent					
2		_				
3		<u>Depr.</u>	<u>Original</u>	Yr_	_	
4	Acct. Decsription	<u>Rate</u>	<u>Cost</u>	<u>Factor</u>		reciation
5	307 Wells and Springs	3.33% \$	(7,072)	5.79	\$	(1,363)
6	307 Wells and Springs	2.62%	(7,072)	0.46		(85)
7						
8					_	
9	Increase (Decrease) in Plant-in-Service				\$	(1,449)
10						
11						
12						
13						
14	SUPPORTING SCHEDULE					
15	Rebuttal B-2, page 3.4					
16						
17						

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment 3

Exhibit Rebuttal Schedule B-2 Page 5 Witness: Bourassa

				Adjustment 3	60			5	Witness: Bourassa	
ğ g										
- ^	Deferred Income Tax as of September 30, 2008 (Water and Wastewater Divisions) Probability	tember 30, 2008	Water and Waster	water Divisions) Probability	Deductible TD					
· m •		1		of Realization	(Taxable TD)	Å	Future	Purtues Tay Appeal	Potens Tor I jakilite	
÷ •		Adjusted Rook Value	Tay Value 34	Tax Benefit	Experied to	1 3 E	Current	Non Current	Current Non Current	nty Juranat
9	Plant-in-Service \$	133,539,465	A							
۲.		(16,929,695)								
× 0	Fixed Assets S	97,802,628	\$ 58,956,770	%0.001	\$ (38,845,858)	38.6%			\$ (14,	(14,994,501)
. =		(29,326,533)		100.0%	29,326,533	38.6%		\$ 11,320,042		
=	Tax Benefits from bonus depr.			%0'001	\$ 7,490,359	38.6%		\$ 2,891,278		100
12								\$ 14,211,320	. 5 (14)	(14,994,501)
2 #				_	Net Asset (Liability)		\$ (783,181)			
15										
9 !	Water Division allocation factor						0.57223			
<u>. «</u>	Allocated DIT Asset (Liability)						\$ (448,160)			
19	DIT Asset (Lishility) per hooks						\$ (21,451)			
21										
77 7	Adjustinent to DIT						\$ 426,709			
3 ;	Later at West and West and Debutted D 2 mone 2 (Worker Diriginal and Debutted D 2 mone 2 (Workermeley Diriginal	C Learning Co.	Tanto O (Worker F	the Contract Contract	John C. C. Company	Divinion				
₹ ¥	Adjusted water and wastewater, per recourse D-2, page 2 (water Division) and recourse D-2, page 2 Based on water division rate hase relative to total of both water and wastewater division rate hases	ase relative to total	of both water and a	vastewater division	at Det. page a (masternate	. Civision)				
3 3		dec icidative to total	OI DOIGH WANTED ALLE	10161 AT THE WAY 1010 II	alt Dasts.					
76		ni (water and wask	water)							
77 2	 Computation of Net Tax Value at September 30, 2008 (Water and Wastewater) Earld on 2008 Tax Demication among Observation 31, 2008. 	te at September 30,	2008 (Water and W	/astewater)						
2 67		march moder nor								
30	Unadjusted Cost per 2008 Tax Depr. Report	r. Report			\$ 71,524,622					
Ξ £	Less: Plant added atter September 2008	2008		,	(4,062,697)	\$ 67 461 035				
3 6		nm 2007 Tax Depr. Rep.	(F							
3.5										
35		at. to Scpt. 2008								
36	Bonus Dept. for 12 months of 2008 per 1 ax Dept. Report	per Lax Depr. Report	•		5 14,407,232					
38		lant added from Jan. to	Sept. 2008	•	\$ 12,375.882					
39					67.0					
₹;	Bonus Depreciation for 9 months of 2008	f 2008				(9,281,912)	-			
4 ÷	2008 Passeciation Commission Iso to Sent 2008	to Sent 2008								
7 5	•	ner Tax Denr. Report			\$ 1.817.974					
4		Per September 2008								
45		ded Jan. to Sept. 2008			5 1,770,248					
9					9.75	•				
4 4	Tax Depreciation for 9 months of 2008	800				(1.327,686)	•			
4	Land					3,068,021				
20	Post Test Year Plant (added in 2009)	•				1,885.770	_1			
2 5	Not tax value of plant-invervice at Scokenber 30, 2008	kmber 30, 2008				5 58,956,770				
: 5						1				
\$ 5										
\$ 3	Tax Benefits from bonus depreciation									
8 72	Net Income before tax	779.0677	930.677 (from E-2 for both Water and Wastewater)	or and Wastewater)						
88										
6 5 9	Add: Book Depreciation	2,553,660	2,553,660 (from E-2 for both Water and Wastewater)	er and Wastewater)						
3 2	Leer Tax Denesciation									
62		(362,098)	(365,098) (from 2007 tax report \$1,460,292 times 3/12)	1,460,292 times 3/12)						
63	Jun Sept. 2008	5	(10,609,598) (from above 59,281,912 plus 51,327,686)	plus \$1,327,686)						
3	_									
65										
99										

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 4

Exhibit Rebuttal Schedule B-2 Page 6 Witness: Bourassa

Line			
<u>No.</u> 1	Plant Retirements		
2	Aid Constanting	\$	(8,677)
3	Advances-in-Aid of Construction	*	(0,0)
4 5	Constributions-in-Aid of Construction	\$	(7,888)
6	Constitutions in 7 lid of Constitutions.		
7			
8			
9			
10			
11			
12 13			
14			
15	See Staff Adjustment 1 Schedule JMM-W6		

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Computation of Working Capital

Exhibit Rebuttal Schedule B-5 Page 1 Witness: Bourassa

Line				
<u>No.</u>				
1	Cash Working Capital (1/8 of Allowance			407.004
2	Operation and Maintenance Expense)		\$	437,861
3	Pumping Power (1/24 of Pumping Power)			42,242
4	Purchased Water (1/24 of Purchased Water)			209
5				
6				
7				
8				100 010
9	Total Working Capital Allowance	_	\$	480,312
10				
11		_		
12	Working Capital Requested	_	\$	
13				
14				
15	SUPPORTING SCHEDULES:	RECAP SCH	EDULES	<u>.</u>
16	Rebuttal C-1	Rebuttal B-1		
17				

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Income Statement

Exhibit Rebuttal Schedule C-1 Page 1 Witness: Bourassa

Líne <u>No.</u>		Test Year Adjusted <u>Results</u>	<u>Ad</u>	ljustment	Rebuttal Test Year Adjusted <u>Results</u>	Propose Rate Increase		, V	Rebuttal Adjusted vith Rate Increase
1	Revenues						1		40 540 046
2	Metered Water Revenues	\$ 6,347,481	\$	403,707	\$ 6,751,188	\$ 6,759,	028 \$	Þ	13,510,216
3	Unmetered Water Revenues	-		-	-		-		407.500
4	Other Water Revenues	127,522			 127,522		-	_	127,522
5		\$ 6,475,002	\$	403,707	\$ 6,878,709	\$ 6,759,	028	Þ	13,637,738
6	Operating Expenses								
7	Salaries and Wages	\$ -		-	\$ -		- \$	Þ	-
8	Purchased Water	5,011		-	5,011		-		5,011
9	Purchased Power	1,013,811		-	1,013,811		-		1,013,811
10	Fuel for Power Production	58,147		(20,309)	37,839		-		37,839
11	Chemicals	503,278		(305)	502,973		-		502,973
12	Repairs and Maintenance	44,001		-	44,001		-		44,001
13	Office Supplies and Expense	-		-	-		-		
14	Outside Services	12,469		-	12,469		-		12,469
15	Outside Services- Other	2,382,976		(4,409)	2,378,567		-		2,378,567
16	Outside Services- Legal	14,317		-	14,317		-		14,317
17	Water Testing	28,365		-	28,365		-		28,365
18	Rents	10,647		-	10,647		-		10,647
19	Transportation Expenses	151,879		-	151,879		-		151,879
20	Insurance - General Liability	95,469		-	95,469		-		95,469
21	Insurance - Health and Life	3,319		-	3,319		-		3,319
22	Reg. Comm. Exp.	63,662		-	63,662		-		63,662
23	Reg. Comm. Exp Rate Case	70,000		-	70,000		-		70,000
23	Miscellaneous Expense	81,664		(827)	80,837		-		80,837
24 25	Bad Debt Expense	3,264		5,284	8,548		-		8,548
	Depreciation Expense	2,291,982		(4,715)	2,287,267		-		2,287,267
26	Taxes Other Than Income	-			-		-		-
27	Property Taxes	373,338		6,157	379,495		-		379,495
28		(449,705)		164,778	(284,927)	2,608,	909		2,323,982
29	Income Tax	\$ 6,757,892	\$	145,654	\$ 6,903,546	\$ 2,608,	909 3	\$	9,512,455
30	Total Operating Expenses	\$ (282,890)	\$	258,053	\$ (24,837)	\$ 4,150,	119	\$	4,125,283
31	Operating Income	ψ (202,000)	•	•	•				
32	Other Income (Expense)	-		-	_		-		-
33	Interest Income	_		_	-		-		-
34	Other income (loss)	(432,478)		4.068	(428,410)		-		(428,410)
35	Interest Expense	(402,470)		-	-		-		-
36	Other Expense	_		-	-		_		
37	T () Other became (Freezes)	\$ (432,478)	\$	4,068	\$ (428,410)	\$	- ;	\$	(428,410)
38	Total Other Income (Expense)	\$ (715,368)	\$	262,121	\$	\$ 4,150.		\$	3,696,872
39	Net Profit (Loss)	Ψ (713,300)			 \.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	<u> </u>			
40	CURRORTING SCHEDULES				<u>[</u>	RECAP SO	HEDL	JLE	<u>S:</u>

SUPPORTING SCHEDULES: Rebuttal C-1, page 2

41

42 43 RECAP SCHEDULES: Rebuttal A-1

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Income Statement

Exhibit Rebuttal Schedule C-1 Page 2.1 Witness: Bourassa

Part												Continued on Page 2.2	
National Control of Properties				-		2	က	4		2	9	7	
Revenues S. 63.47.481 Revenues G. 53.77.481 Revenues G. 50.707			Test Year				Meals &			ormalize	Revenue		
Results Experise	•		Adjusted	Depreciati		орепу	Entertainment			nel for	Annulization	Chemicals	s
Mercentes \$ 6.347.481 \$ 6.157.07 Unneted Vater Revenues \$ 6.475.002 \$ - \$ - \$ - \$ - \$ - \$ 403.707 Unneted Vater Revenues \$ 6.475.002 \$ - \$ - \$ - \$ - \$ - \$ 403.707 Operating Expenses \$ 6.475.002 \$ - \$ - \$ - \$ - \$ - \$ 403.707 Operating Expenses \$ 6.475.002 \$ - \$ - \$ - \$ - \$ - \$ 403.707 Operating Expenses \$ 6.475.002 \$ - \$ - \$ - \$ - \$ - \$ 6 - \$			Results	Expens		axes	Expense	M M M		wer Prod.	Goodyear	Expense	
Operating Expenses \$ 6.374,481 \$ 403,707 Other Water Revenues \$ 6.475,002 \$ - \$ \$ 403,707 Other Water Revenues \$ 6.475,002 \$ - \$ \$ - \$ \$ 403,707 Operating Expenses \$ 6.475,002 \$ - \$ \$ - \$ \$ 403,707 Operating Expenses \$ 6.475,002 \$ - \$ \$ - \$ \$ 403,707 Operating Expenses \$ 6.475,002 \$ - \$ \$ - \$ \$ 403,707 Outchased Vater *** Common Production** *** Co	Reve	nues											
Operating Expenses Salaries and Wages Fuch for Dever Production Chemicals Charles Services Outside Services - Ugal Outside Services - Capa Outside Services - Capa Charles	Σ	etered Water Revenues											
Operating Expenses 1/2/522 \$ \$ 403/707 Salates and Wages \$ 6,475.002 \$ \$ \$ 403/707 Salates and Wages \$ 6,475.002 \$ \$ \$ 403/707 Purchased Water 10,3811 \$	Š	nmetered Water Revenues	•										
Setates and Wages Satures and Wages Satures and Wages Purchased World Purchased World Purchased World Purchased World Purchased World Fuel for Power Production Chemicals Repairs and Maintenance Chamicals Chamicals Repairs and Maintenance Chamicals Repairs Course Legal Custade Services - Legal Custade Services - Legal Course Chemical Custade Services - Legal Course Chemical Course Supplies Course Chemical Course Services - Legal Course Chemical Repairs Course Chemica	Ö	ther Water Revenues	127,522										
Operating Expenses \$ Salance and Wages \$ Purchisaced Water 1,013,611 (20,309) Purchisaced Water 1,013,611 (20,309) Purchisaced Water 1,013,611 (20,309) Purchisaced Water 1,013,611 (20,309) Purchisaced Water 1,013,612 (20,309) Repairs and Maintenance 2,362,976 (20,309) Outside Services Other 1,2469 (20,300) Report Testing 1,2469 (20,300) (20,300) National Services Other Testing Income 1,118,73 (20,300) (20,300) (20,300) Report Services Calcered Liability 31,73,33 6,157 6,157 8,2284 2,234 2,234 2,234 Report Services Calcered Liability 2,175 2,175 2,175 2,284 2,284 2,284 Report Transcorter Learner Expense			٩	€5				65					
Spatiars and Wages \$ 5.1 Purchased Wedner 1,013.811 Purchased Wedner 1,013.811 Chemicals Chemicals State	Oper	ating Expenses											
Purchased Water 1,013,11 1,	Ö.	laries and Wages	, \$										
Purchased Power 1013 811 Control Purchased Power 1013 811 Chello Power Production 503.278 Chemicals and Maintenance 44,001 Chemicals and Maintenance 44,001 Chemicals and Maintenance 44,001 Chemicals and Maintenance 12,489 Chemical Chemicals 13,32,376 Chemical Chemical Chemical Chemicals Chemical Che	á	urchased Water	5.011										
Fuel for Power Production 55,147 (20,309) Chemicals and Maintenance Office Supplies and Expense 59,278 (20,309) Outside Services - Other Castell Services - Other Castell Services - Cherr Testing 12,382,976 (232,282,976 Outside Services - Cherr Testing 22,382,976 (232,282,976 (232,282,976 Outside Services - Cherr Testing 28,382,976 (232,976 (232,976 Outside Services - Cherr Testing 28,546 (232,976 (232,976 Outside Services - Cherr Testing 28,546 (232,976 (232,976 Outside Services - Cherr Testing 28,546 (232,976 (232,976 Insurance - Health and Life 3,319 (232,976 (232,976 Reg. Comm. Exp Rate Case 81,664 (47,715) 6,167 6,167 Reg. Comm. Exp Rate Case 13,244 1,15 6,157 8,177 8,177 Bed Cheft Expense 2,21,982 4,715 6,157 8,177 8,177 8,177 8,177 8,177 8,177 8,177 8,177 8,177 8,177 8,177 8,177	ã	urchased Power	1,013,811										
Chemicals Repairs of Chemical States of Maintenance of Maintenance of Mice States and Expense 12.469 503,278 Chemical States of Maintenance of Mice States of States of Mice States of States of States of States of States of States of Mice S	ū	iel for Power Production	58.147							(20.309)			
Repairs and Maintenance Outside Services and Expense Outside Services Legal 44,001 Outside Services Legal 12,463 Outside Services Legal 12,483 Outside Services Legal 12,483 Valer Testing 23,836 Rents 10,647 Transportation Expenses 15,1879 Insurance - Central Lability 95,469 Reg. Comm. Exp. 81,664 Reg. Comm. Exp. 81,664 Reg. Comm. Exp. 81,664 Bad Debt Expense 32,642 Properciation Expense 2,291,982 Operaciation Expense 373,339 Incan Dept Testing Expense 373,338 Incan Dept Testing Expense 373,338 Incan Dept Testing Expense 4,715 Other Income (Expense) 4,715 Interest Expense 4,715 Other Income (Expense) 4,715 Interest Expense 4,715 Other Income (Expense) 4,715 Other Income (Expense) 4,715 Interest Expense 4,715 Other Income (Expense)	Ö	hemicals	503,278										(302)
Office Supplies and Expense Outside Services - Chera Insurance - Health and Librily Insurance - He	οx	Popular and Maintenance	44 001										,
Outside Services Outside Services Outside Services Outside Services Outside Services Outside Services Cher Outside Services 16,1873 Insurance - General Liability Insu	: C	fice Supplies and Expense	•										
Outside Services - Other) C	utside Services	12 469										
Outside Services Legal 14.317 Outside Services Legal 14.317 Valer Testing Pents Transportation Expenses 151,873 Insurance - Health and Life 3.346 Insurance - Ceneral Liability 95,469 Insurance - Health and Life 63,662 Reg. Comm. Exp Rate Case 70,000 Miscellareous Expense 3.264 Bad Celtr Expense 3.2624 Bad Celtr Expense		utside Septices. Other	2 382 976										
Variance Carlot		utside Centres - Least	14 317										
Variant resung Vol. 50.505 Variant resung 10,600 Feet strain result of training instance cleaneral Liability 10,1879 Insurance - General Liability 3,199 Reg. Comm. Exp. 63,662 Reg. Comm. Exp. 170,000 Miscellaneous Expense 170,000 Bad Detit Expense 2,291,982 (4,715) Depreciation Expense 2,291,982 (4,715) Properly That income 173,338 6,157 Properly Taxes Other Than income 173,338 6,157 Properly Taxes Income 149,705) 4,715 Operating Expense \$ (322,390) \$ 4,715 \$ (6,157) \$ (distant del vices regan	100 00										
Transportation Expenses 151,879 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,547 10,548 10,54		/ater lesting	20,303										
Transportation Expenses 151,879 Transportation Expenses 151,879 Transportation Expenses 151,879 Transportation Expense 151,879 Transurace - Health and Life 3,364 1,000 Miscellaneous Expense 3,264 1,000 Miscellaneous Expense 3,264 1,000			10,647										
Insurance - General Liability 95,469 Insurance - General Liability 13,319 Reg. Comm. Exp Rate Case Reg. Rate Case		ransportation Expenses	151,879										
Insurance - Health and Life		surance - General Liability	95,469										
Reg. Comm. Exp. 63 662 Reg. Comm. Exp. 63 662 Reg. Comm. Exp. 63 662 Reg. Comm. Exp. 70,000 Miscellaneous Expense 8 1 664 (4715) Bad Debt Expense 3,264 (4,715) Depreciation Expense 373,338 6,157 5,284 2,0309 \$ Total Operating Expenses income Tax 448,705 4,715 \$ 6,157 \$ 827 \$ 5,284 \$ 20,309 \$ 403,707 Operating Income Tax Income Expense 5 (282,890) \$ 4,715 \$ 6,157 \$ 827 \$ 5,284 \$ 20,309 \$ 4,03,707 Other income (loss) 1 interest Income 6 (157) \$ 827 \$ 5,284 \$ 20,309 \$ 4,03,707 Interest Income (Expense) 4,22,478 - \$ - \$ - \$ - \$ - \$ Other Expense 5 (715,368) \$ 4,715 \$ 6,157) \$ 827 \$ 5,284 \$ 20,309 \$ 403,707 Rebuttal C-2 Rebuttal C-2 827 \$ 6,157) \$ 827 \$ 6,284) \$ 20,309 \$ 403,707		surance - Health and Life	3,319										
Reg. Comm. Exp Rate Case 70,000 Miscellaneous Expense 70,000 Miscellaneous Expense 3,64 (4,715) 5,284 Bad Depreciation Expense 2,291,982 (4,715) 5,284 Taxes Other Than Income Taxes Other Than Income Tax 373,338 6,157 8,157 Property Taxes Income Expenses Income Expense \$ (4,715) \$ (6,157) \$ (22,84) \$ (20,309) \$ (eg. Comm. Exp.	63,662										
Miscellaneous Expense 81,664 (827) 5,284 Bad Debt Expense 3,264 (4,715) 5,284 Describing Expenses Other Than Income Tax Income Tax Income (Expense) 373,338 6,157 6,157 Property Taxes Other Than Income Tax Income (Loss) Interest Income (Loss) \$ (282,890) \$ 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 Operating Expenses Other Income (Expense) Interest Expense Other Income (Expense) 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 Other Income (Expense) Interest Expense 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 Other Income (Expense) Interest Expense 5 (432,478) Interest Expense 5 (432,478) Interest Expense 5 (432,478) Interest Expense 5 (264) \$ 20,309 \$ 403,707 SUPPORTING SCHEDULES: 5 (264) \$ 20,309 \$ 403,707		eg. Comm. Exp Rate Case	20,000										
Bad Debt Expense		liscellaneous Expense	81,664				(827	<u>د</u>					
Depreciation Expense 2,291,982		ad Debt Expense	3,264						5,284				
Taxes Other Than Income Taxes Other Than Income Taxes Other Than Income Taxes Other Than Income S		epreciation Expense	2,291,982	4)	715)								
Property Taxes Prop		axes Other Than Income	•										
Income Tax		roperty Taxes	373,338			6,157							
Total Operating Expenses \$ 6,757,892 \$ (4,715) \$ 6,157 \$ (827) \$ 5,284 \$ (20,309) \$. Operating income (Expense) \$ (282,890) \$ 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 Other Income (loss) Interest Expense C432,478 Other Expense \$ (432,478) Total Other Income (Expense) \$ (432,478) Net Profit (Loss) \$ (715,368) \$ 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 Rebuttal C-2 Rebuttal C-2		come Tax	(449,705)										
Operating income \$ (282,890) \$ 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 Other income (box) interest income (box) interest Expense (432,478) Other Expense \$ (432,478) Other Expense \$ (432,478) Other Expense \$ (432,478) Net Profit (Loss) \$ (715,368) \$ 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 Rebuttal C-2		I Operating Expenses	۳			6,157		\$ (/	5,284 \$	(20,309)		١	(305)
Other Income (Expense) Interest Income Other income (Ioss) Interest Income Other Expense Other Expense Other Income (Expense) Supporting SCHEDULES: Supporting SCHEDULES: Rebuttal C-2		rating Income				(6,157)			(5,284) \$	20,309			305
Interest Income (loss)		ir Income (Expense)											
Other income (loss) Interest Expense Other Expense Other Expense Total Other Income (Expense) Net Profit (Loss) SUPPORTING SCHEDULES: Rebuttal C-2		terest Income	•										
Interest Expense (432.478) Other Expense Total Other Income (Expense) \$ (432.478) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		Wher income (loss)	•										
Other Expense		iterest Expense	(432,478)										
Total Other Income (Expense) \$ (432,478) \$ - \$<		ther Expense	•										
Total Other Income (Expense) \$ (432,478) \$ - \$ - \$ - \$ - \$ Net Profit (Loss) \$ (715,368) \$ 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 SUPPORTING SCHEDULES: Rebuttal C-2													
Net Profit (Loss) \$ (715,368) \$ 4,715 \$ (6,157) \$ 827 \$ (5,284) \$ 20,309 \$ 403,707 SUPPORTING SCHEDULES: Rebuttal C-2		I Other Income (Expense)			69	•	s	- 1	·	,			,
SUPPORTING Rebuttal C-2		Profit (Loss)	1		,715 \$	(6,157)	∽	ı	(5,284) \$	20,309		- 1	305
Rebuttal C-2		ESCHEDIS CHILD PC											
		tebuttal C-2											
													

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Income Statement

Exhibit Rebuttal Schedule C-1 Page 2.2 Wfiness: Bourassa

## Central 10 11 12 13 Rebuttal Proposed a Central Cen		rage 4.1									
Revenues Capitalized University of Capitalized		æ	თ		#	₩.		13	Rebuttal	ú	Rebuttal
Revenues Captinistic Diministration of Control o		111111111111111111111111111111111111111		Central	1	-	Ç.		lest Year	Proposed	Adjusted
Montrales Water Revenues Montrales Water Revenues \$ 6,751,188 \$ 6,759,028 \$ 13. Unmeters Water Revenues 127,522 \$ 137,522 Operating Expanses \$ 6,751,188 \$ 6,759,028 \$ 13. Salevies and Wages \$ 6,751,188 \$ 6,759,028 \$ 13. Charles of Vater Frenues \$ 6,751,188 \$ 6,759,028 \$ 13. Salevies and Wages \$ 6,751,188 \$ 6,759,028 \$ 13. Purchased Power \$ 6,751,188 \$ 6,759,028 \$ 13. Purchased Power \$ 101,3311 Purchased Power \$ 101,3311 Purchased Power \$ 101,3311 Charles Supplies and Expenses \$ 101,3311 Outside Services Charles Labelly \$ 102,431 Insurance - Canneal Labelly \$ 102,431 Insurance - Canneal Labelly \$ 102,432 Insurance - Canneal Labelly \$ 102,432 <td< th=""><th></th><th>Expenses</th><th>Unnecessary</th><th>Costs</th><th>Synchronization</th><th></th><th>ē ×</th><th></th><th>Results</th><th>Increase</th><th>Increase</th></td<>		Expenses	Unnecessary	Costs	Synchronization		ē ×		Results	Increase	Increase
Meteral Video Revenues S 6751169 S 675026 S 13.	Revenues						ı				
Operating Expenses 127:522 Operating Expenses \$ 6775.028 \$ 13. Operating Expenses \$ 6775.028 \$ 13. Purchased Venetral Valence Production \$ 6775.028 \$ 13. Purchased Valence Production \$ 6775.028 \$ 13. Repairs and Malenance \$ 6777.028 \$ 6775.028 \$ 17. Outside Services Other \$ 6777.028 \$ 6775.028 \$ 17. Outside Services Other \$ 6777.028 \$ 6775.028 \$ 17. Outside Services Other \$ 6777.028 \$ 67. Outside Services Other \$ 6777.028 \$ 67. Outside Services Other \$ 67. Outside Services Other \$ 67. Niver Testing Insulance Services Other Insulance Services Other Than Income Testing Insulance Services Other Than Income Testing Income Texting Indirect Income (loss) \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027 \$ 69.054.027	Metered Water Revenues										
Other Water Revenues S 175.522 S 13.522	Unmetered Water Revenues								•		•
Section Expenses Section S	Other Water Revenues									- 1	127,522
Operating Expenses \$ 1, 10, 38 in 1 \$ 5, 01 \$ 1, 10, 38 in 1											
Submiss and Vacques Purchased Water Purchased	Operating Expenses										
Purchased Water 101361 1	Salaries and Wages										
Tremance Treman	Purchased Water								5,011		5,011
roduction retrained by the properties of the pro	Durchased Dower								1.013.811		1.013.811
Automatic Auto	First for Dower Production								37,839		37,839
Accordance Acc	Chemicale								502 973		502 973
Comparison Com	Concinuals Maintenance								44 001		44 001
12,489 (3,191) 18,771 18,771 12,489 238,855 2	Cepalls and Mallicellance										
19,989 (3,191) 18,771 2,378,567 2 2,489 2 2 2 2 2 2 2 2 2	Office Supplies and Expense										
18,771	Outside Services								12,469		12,469
xpenses xpenses rail Lability thand Life 0 Rate Case sell Rate Case sell Lability thand Life 0 Rate Case sell Lability thand Life 0 Rate Case sell Lability thand Life 0 Rate Case 85.469 80.837 85.469 80.837 85.469 80.837 86.489 80.837 86.489 80.837 86.489 80.837 86.489 80.837 86.899 80.899 80	Outside Services-Other	(19,989			-				2,378,567		2,378,567
xpenses 1647 xpenses 1647 th and Life 95,469 th and Life 3,19 seral Lability 164,778 16,489 spense 164,778 164,778 2,608,909 2 spense 2 164,778 2,608,909 2 spense 3 19,889 3,191 18,771 - 5 164,778 2,608,909 2 spense 3 19,889 3,191 4,068 - 5 164,977 5 164,778 - 5 168,999 8 3 19,119 3 4,150,119 3 4,150,119 3 4,150,119 3 4,150,119 3 - 3 19,117 3 4,168 3 1,150,119 3 - 3 1,150,119 3 - 3 1,150,119 3 - 3 1,150,119 3 - 3 1,150,119 3 - 3 1,150,119 3 <t< td=""><td>Outside Services-Legal</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>14,317</td><td></td><td>14,317</td></t<>	Outside Services-Legal	-							14,317		14,317
stand Life 10,647 10,647 151,879 151,889 <	Mater Tection								28.365		28.36
xpenses t51.879 seral Liability 95,489 th and Life 3,319 th and Life 3,319 th and Life 63,662 th and Life 70,000 xpense 8,548 sere 8,548 sere 379,495 spenses 164,778 2,287,267 spenses 3,191 (18,771) 5 6,903,646 2,508,909 2 spenses \$ (19,989) 3,191 \$ (16,778) 5 5,608,909 2 spenses \$ (16,771) \$ (164,778) \$ (24,837) \$ 4,150,119 \$ 4,150,119 \$ 4,150,119 \$ 4,150,119 \$ 4,150,119 \$ 6,903,646 \$ 6,903,646 \$ 2,508,909 2 \$ 6,903,646 \$ 2,508,909 \$ 6,903,646 \$ 2,508,909 \$ 6,903,646 \$ 2,508,909 \$ 6,903,646 \$ 2,508,909 \$ 6,903,646 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 \$ 2,508,909 <td>Water Teating</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10.647</td> <td></td> <td>10.64</td>	Water Teating								10.647		10.64
State Stat									464 070		154 075
serial Labolity 1. Fatle Case 2. Fatle Case 3. Fatle Case 3. Fatle Case 3. Fatle Case 4. Fatle Case 5. Fatle Case 8. F	ransportation Expenses								0.0,101		10,101
th and Life 5.1519 5	Insurance - General Liability								904,09		90,00 90,00
Schebulles: Schebulles: S Rate Case D Rate Case State Case State Case State Case Book 337 Book 327 Bo	Insurance - Health and Life								3,319		3,31
To 000 To 000	Reg. Comm. Exp.								63,662		63,662
spense 80,837 80,837 se 8,548 2,287,267 2 2 2,287,267 2 2 2,287,267 2 2 2 2 2,287,267 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 4 4	Reg. Comm. Exp Rate Case								70,000		70,00
See 8,548 pense 2,287,267 2 an Income 379,495 spenses 19,989 \$ 3,191 \$ (18,771 \$ \$ (164,778 \$ \$ (164,778 \$ \$ (24,837) \$ 4,150,119 \$ 4 spenses 4,068 4,068 \$ \$ (164,778) \$ \$ (428,410) SCHEDULES: SCHEDULES:	Miscellaneous Expense								80,837		80,83
SCHEDULES: State	Bad Debt Expense								8,548		8,54
Technology	Depreciation Expense								2.287.267		2 287 26
spenses 164,778 164,178 <t< td=""><td>Tover Other Theo Income</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>'</td></t<>	Tover Other Theo Income										'
SCHEDULES: SCHEDUL	- axes Office High Hoofing								307 026		270 40
senses \$ (19,389) \$ (3,191) \$ 18,771 \$ \$ (164,778) \$ \$ (3,900,309) \$ 2 senses \$ (19,989) \$ (3,191) \$ (18,771) \$ \$ (164,778) \$ \$ (3,000,309) \$ 3 senses \$ (19,989) \$ (3,191) \$ (18,771) \$ \$ (164,778) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (453,247) \$ 4,150,119 \$ 5 SCHEDULES: RECAP SCHEDULES: Rebuttal C-1, page 1	Property laxes						40.4.770		10 to		ה היה היה היה היה היה היה היה היה היה ה
spenses \$ (19,889) \$ (3,191) \$ (18,771) \$ \$ (164,778) \$ \$ (164,778) \$ \$ (24,837) \$ 4,150,119 \$ 4 (18,771) \$ \$ (164,778) \$ \$ (24,837) \$ 4,150,119 \$ 4 (18,771) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (428,410) \$ \$ (453,247) \$ 4,150,119 \$ 5 \$ (453,247) \$	Income Lax				- 1		-		ľ	,	1
\$ 19,989 \$ 3,191 \$ (18,771) \$ - \$ (164,778) \$ - \$ (24,837) \$ 4,150,119 \$ 4 (18.58) \$ 4 (18.58) \$ 4 (18	Total Operating Expenses		\$	s		es		•	9	اجو	1
4,068 (428,410)	Operating Income		69	↔		69		•		69	
4,068 (428,410) \$ - \$ - \$ 4,068 \$ - \$ (428,410) \$ - \$ \$ 19,989 \$ 3,191 \$ (18,771) \$ 4,068 \$ (164,778) \$ - \$ (453,247) \$ 4,150,119 \$ 3 RECAP SCHEDULES: Rebuttal C-1, page 1	Other Income (Expense)										
4,068 (428,410)	Interest Income								•		•
4,068 (428,410) \$ 4,068 \$ - \$ (428,410) \$ - \$ 5 5 19,989 \$ 3,191 \$ (18,771) \$ 4,068 \$ (164,778) \$ - \$ (453,247) \$ 4,150,119 \$ 3 RECAP SCHEDULES: Rebuttal C-1, page 1	Other income (loss)								•		•
\$ 4,068 \$. \$ 4,068 \$. \$ 4,28,410 \$. \$ 5.5,247 \$ 4,150,119 \$ 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Interest Expense				4,06	80			(428,410	_	(428,41
\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Other Expense								•		•
Total Other Income (Expense) \$ - \$									•		•
Net Profit (Loss) \$ 19,989 \$ 3,191 \$ (18,771) \$ 4,068 \$ (164,778) \$ - \$ (453,247) \$ 4,150,119 \$ 3 SUPPORTING SCHEDULES: Recontral C-1 Rebuttal C-1 Reputtal C-1 Rebuttal C-1 Reb					es.	l		١.			
SUPPORTING SCHEDULES: Rebuttal C-1 , page 1		_	65	5	5	1	ı			8	ľ
	SUPPORTING SCHEDULES:									RECAP SCHE	ULES:
	Rebuttal C-2									Rebuttal C-1	page 1

Exhibit Rebuttal Schedule C-2 Page 1 Witness: Bourassa

Subtotal 403 707	(14,410)	418,117	, ,	418,117	Subtotal	403,707	145,654	258,053	4,068	262,121
6 Revenue Annualization 403 707		403,707		403,707	12 Income	axes	164,778	(164,778)		(164,778)
<u>5</u> Fuel for <u>Power Prod.</u>	(20,309)	20,309		20,309	11 Interest	Syncrhonization		•	4,068	4,068
4 Bad Debt <u>Expense</u>	5,284	(5,284)		(5,284)		Office Costs	18,771	(18,771)		(18,771)
Adlusiments to Revenues and Expenses. 3 erty Meals & Entertain.	(827)	827		827	Adjustments to Revenues and Expenses 9 lized Unnecessary	Expenses	(3,191)	3,191		3,191
Adustments to Ro 2 Property Taxes	6,157	(6,157)		(6,157)	Adjustments to R <u>8</u> Capitalized	Expenses	(19,989)	19,989		19,989
1 Depreciation <u>Expense</u>	(4,715)	4,715		4,715	<u>7</u> Annualize	Chemicals Expense	(305)	305		305
Depre	Expenses	Operating Income	Interest Expense Other Income / Expense	Net Income	Ann	<u>Chemica</u> Revenues	Expenses	Operating Income	Interest Expense Other Income /	Expense Net Income

ule C-2 ssa	Total		403,707	145 654	1000		258,053		4,068		•			262,121
Exhibit Rebuttal Schedule C-2 Page 1 Witness: Bourassa	18	Blank					•							
	17	Blank					•							
	16 16	Blank					•							
ifield Park Service Company - Water Division Test Year Ended September 30, 2008 Adjustments to Revenues and Expenses	Adjustments to Revenues and Expenses	Blank												
Litchfield Park Service Company - Water Div Test Year Ended September 30, 2008 Adjustments to Revenues and Expenses	Adjustm 14	Blank												
	13	Blank												
			Revenues	i	Expenses	Operating	Income	Interest	Expense	Other	Income /	Expense		Net Income
	37 38	39	4	45	3 4 4	45	46	47	49	20	51	25	23	54

Litchfield Park Service Company - Water Division

Test Year Ended September 30, 2008 Adjustments to Revenues and Expenses Adjustment Number 1 Exhibit Rebuttal Schedule C-2 Page 2 Witness: Bourassa

Line						
<u>No.</u> 1	Denrecia	ation Expense	Rebuttal			
2	Depresid	211011 27501100	Adjusted		F	Rebuttal
3	Acct.		Original	Proposed		<u>preciation</u>
4	No.	Description	Cost	<u>Rates</u>	<u>E</u>	xpense
5	301	Organization Cost	21,100	0.00%		-
6	302	Franchise Cost	-	0.00%		-
7	303	Land and Land Rights	1,284,595	0.00%		-
8	304	Structures and Improvements	24,649,251	3.33%		820,820
9	305	Collecting and Impounding Res.	-	2.50%		-
10	306	Lake River and Other Intakes	-	2.50%		-
11	307	Wells and Springs	2,393,491	3.33%		79,703
12	308	Infiltration Galleries and Tunnels	-	6.67%		-
13	309	Supply Mains	-	2.00%		-
14	310	Power Generation Equipment	202,269	5.00%		10,113
15	311	Electric Pumping Equipment	917,055	12.50%		114,632
16	320	Water Treatment Equipment	1,337,824	3.33%		44,550
17	320.1	Water Treatment Plant	1,885,770	3.33%		62,796
18	320.2	Chemical Solution Feeders	-	20.00%		-
19	330	Dist. Reservoirs & Standpipe	439,244	2.22%		9,751
20	330.1	Storage tanks	-	2.22%		-
21	330.2	Pressure Tanks	-	5.00%		-
22	331	Trans. and Dist. Mains	28,929,171	2.00%		578,583
23	333	Services	4,249,744	3.33%		141,516
24	334	Meters	4,138,752	8.33%		344,758
25	335	Hydrants	2,055,781	2.00%		41,116
26	336	Backflow Prevention Devices	38,387	6.67%		2,560
27	339	Other Plant and Misc. Equip.	259,531	6.67%		17,311
28	340	Office Furniture and Fixtures	551,757	6.67%		36,802
29	340.1	Computers and Software	-	20.00%		-
30	341	Transportation Equipment	177,165	20.00%		35,433
31	342	Stores Equipment	31,711	4.00%		1,268
32	343	Tools and Work Equipment	23,350	5.00%		1,168
33	344	Laboratory Equipment	-	10.00%		-
34	345	Power Operated Equipment	-	5.00%		-
35	346	Communications Equipment	119,710	10.00%		11,971
36	347	Miscellaneous Equipment	, -	10.00%		-
37	348	Other Tangible Plant	-	10.00%		-
38	0-10	outer range is a		_		
39		TOTALS	\$ 73,705,658		\$	2,354,852
40						
41	Less: Ar	nortization of Contributions				
42		Electric Pumping Equipment	\$ 15,219	12.5000%	\$	(1,902)
43	331	Trans. and Dist. Mains	2,854,613	2.0000%		(57,092)
44	333	Services	151,402	3.3300%		(5,042)
45	334	Meters	29,899	8.3300%		(2,491)
46	335	Hydrants	52,935	2.0000%		(1,059)
47	000	, , , , , , , , , , , , , , , , , , , ,	\$ 3,104,068		\$	(67,586)
48				_		
49	Total De	preciation Expense			\$	2,287,267
50	TOTAL DO	production in provide				
51	Test Ve	ar Depreciation Expense		_		2,291,982
52	1030 100	ar Boproolation Expense		-		
53	Increase	e (decrease) in Depreciation Expense		_		(4,715)
	morease	(deoredos) in Depresanen Expense		•		
54 55	Adiustm	ent to Revenues and/or Expenses			\$	(4,715)
55	Aujustiti	Citt to Nevertuce und/or Experieds				
56	CLIDDO	DTING SCHEDUI E				
57		RTING SCHEDULE				
58	B-2, pag					
59	B-2, pag	ge 0.7				

Exhibit Rebuttal Schedule C-2 Page 3 Witness: Bourassa

Line			
No.	_		
1	Property Taxes:		
2		•	6,878,709
3	Adjusted Revenues in year ended 09/30/08	\$	
4	Adjusted Revenues in year ended 09/30/08		6,878,709
5	Proposed Revenues		13,637,738 9,131,719
6	Average of three year's of revenue	\$	
7	Average of three year's of revenue, times 2	\$	18,263,437
8	Add:	Φ.	
9	Construction Work in Progess at 10%	\$	-
10	Deduct:		94,101
11	Book Value of Transportation Equipment		34, 101
12		•	18,169,337
13	Full Cash Value	\$.	21%
14	Assessment Ratio		3,815,561
15	Assessed Value		9.5187%
16	Property Tax Rate		9.510170
17			262 102
18	Property Tax		363,193 16,302
19	Plus: Tax on Parcels		10,302
20			379,495
21	Total Property Tax at Proposed Rates	•	373,338
22	Property Taxes recorded during the test year	•	6,157
23	Change in Property Taxes	4	0,137
24			
25		•	6 457
26	Adjustment to Revenues and/or Expenses	<u>*</u>	6,157
27			

28

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 ADJUSTMENTS TO REVENUES AND/OR EXPENSES Adjustment Number 3

Exhibit Rebuttal Schedule C-2 Page 4 Witness: Bourassa

Line <u>No.</u>			
1	Cntractual Services - Aerotek		
2	Remove Contractual Services related to Black Mountain Sewer Company	\$	(42,200)
3 4	Remove Contractual Services related to black Modificant Service Company	•	(12,200)
5			
6			
7	Increase(decrease) in Contractual Services	\$	(42,200)
8			
9			
10 11	Adjustment to Revenue and/or Expense	\$	(42,200)
12	7 tajaaman ta 7 ta 7 anda an		
13			
14			
15			
16	On Tarkinson		
17 18	See Testimony		
19			
20			

Exhibit Rebuttal Schedule C-2 Page 4 Witness: Bourassa

7 1
7)
7)
<u>7)</u>
<u>7)</u>

Exhibit Rebuttal Schedule C-2 Page 5 Witness: Bourassa

Line			
<u>No.</u>			
1	Bad Debt Expense		
2 3			
3 4	Normalized Bad Debt Expense	\$	8,548
5			
6	Bad Debt Expense per Direct		3,264
7			
- 8	N. D. I D. I. F. Warner	¢	5,284
9	Increase(decrease) in Bad Debt Expense	<u> </u>	0,204
10			
11		¢	5,284
12	Adjustment to Revenue and/or Expense	<u> </u>	3,204
13			
14			
15	SUPPORTING SCHEDULES		
16	Staff Schedule JMM-W17 Adjustment #4		
17			
18			
19			
20			
20			

Exhibit Rebuttal Schedule C-2 Page 6 Witness: Bourassa

Line <u>No.</u>			
1	Normalize Fuel For Power Production		
2	T. I.f. D. Durchustian symposis	\$	309
3	2006 - Fuel for Power Production expense	•	55,059
4	2007 - Fuel for Power Production expense		58,147
5	2008 - Fuel for Power Production expense	\$	113,516
6	Total	•	
7			3.00
8	Normalization period - 3 years		0.00
9	D. Lufer market	\$	37,839
10	Normalized Fuel for Power Production expense	Ψ	07,000
11	D. J. Communication		58,147
12	Adjusted Test Year Fuel for Power Production expense		30,141
13	Description	¢	(20,309)
14	Increase(decrease) in Fuel for Power Production	<u> </u>	(20,000)
15			
16		•	(20, 200)
17	Adjustment to Revenue and/or Expense	\$	(20,309)
18			
19	SUPPORTING SCHEDULES		
20	E-2		

Exhibit Rebuttal Schedule C-2 Page 7 Witness: Bourassa

Line <u>No.</u> 1	Revenue Annualization		
2	TOVOTIGO / (III/III GIII ZGII GII)		
3			
4	Reverse Proforma Reduction if Revenues from City of Goodyear	\$	403,707
5			
6		\$	403,707_
7	Increase(decrease) in Revenues	<u> </u>	403,707
8			
9	_ ,, ,,	\$	403,707
10	Adjustment to Revenue and/or Expense	<u> </u>	405,707
11			
12			
13			
14			
15 16			
17			
18	SUPPORTING SCHEDULE		
19	RUCO Schedule 4, page 2 of 15 Adjustment No. 1		
20			
21			

Exhibit Rebuttal Schedule C-2 Page 8 Witness: Bourassa

Line			
<u>No.</u> 1	Chemicals Expense		
2 3		c	(305)
4 5	Hills Brothers Chemicals expense outside the test year.	\$	(303)
6		œ	(305)
7	Increase(decrease) in Chemicals Expense	<u> </u>	(303)
. 8 9			
10	Adjustment to Revenue and/or Expense	\$	(305)
11 12			
13			
14			
15 16			
17			
18 19			
20			

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008

Test Year Ended September 30, 2008 Adjustment to Revenues and Expenses Adjustment Number 8 Exhibit Rebuttal Schedule C-2 Page 9 Witness: Bourassa

Line			
<u>No.</u>			
1	Capitalized Expenses		
2			
3			
4		_	(4.4.4.1)
5	307 - Wells and Springs - Hydro Controls and Pump Systems (clocks for wells)	\$	(1,114)
6	307 - Wells and Springs - Southwest Grd Wtr Consult. (well spacing evaluation)		(1,380)
7	307 - Wells and Springs - Southwest Grd Wtr Consult. (well impact analysisy)		(4,823)
8	307 - Wells and Springs - Southwest Grd Wtr Consult. (well rehabilitation)		(4,072)
9	331 - Distrbution Mains - Narasimhan Consulting Services (Dist. Sys. Eval.)		(8,600)
10			
11	Total Capitalized Expenses	\$	(19,989)
12			
13	Increase(decrease) in Contractual Services - Other	<u>\$</u>	(19,989)
14			
15			
16	Adjustment to Revenue and/or Expense	\$	(19,989)
17	,		181
18			
19	SUPPORTING SCHEDULE		
20	Rebuttal B-2, page 3.3		
21	Napullal D-2, page 0.0		
2			

Exhibit Rebuttal Schedule C-2
Page 10
Witness: Bourassa

No.		
1 Remove Unncessary Expense		
2	\$	(6,400)
Meals and Enterti Exp cost for the DBack game	Ψ	
4 Meals and Enterti BALANCE DUE FOR 2008 XMAS PART		(953)
5 Meals and Entert; DJ SERVICE - XMAS PARTY		(495)
6 Meals and Entert: For Holiday Party Dec. 2008		(4,959)
7 Meals and Entert: Catered Lunch		(412)
8 Total	\$	(13,219)
9		
10 Water Divison 4-factor allocation %		24.14%
11	_	(0.404)
12 Increase (decrease) in Contractual Services - Other		(3,191)
13		
14	_	(0.404)
15 Adjustment to Revenue and/or Expense	<u>\$</u>	(3,191)
16		
17		
18		
19		
20		

Rebuttal Schedule C-2 Page 11

Witness: Bourassa

Line No.									
. 2	Cental Office Costs - Infrastructure Allocation	Ire Al	ocation						
ი ላ							Utility Infrastructur	Utility Infrastructure	•
r vo			Actual			Rejoinder	Group	Group	
9			Total			Total	Allocation	Allocated	٥
~ ∝			Cost Pool	Adjustments		Cost Pool	%	Cost Pool	
ာတ	Audit	₩	987,476		69	987,476	26.98%	\$ 266,462	
9	Tax Services		383,940		₩	383,940	26.98%	103,603	
7	Legal		722,428		₩	722,428	26.98%	194,941	
12	Other Professional Services		448,761		ઝ	448,761	26.98%	121,094	
13	Management Fee - Total		636,255		↔	636,255	26.98%	171,688	
14	Unit Holder Communications		277,582		₩	277,582	26.98%	74,903	
15	Trustee Fees		225,052		₩	225,052	26.98%	60,728	
16	Escrow & Transfer Agent Fees		63,843		₩	63,843	26.98%	17,227	
17	Rent		295,887		↔	295,887	26.98%	79,843	
18	Licenses/Fees & Permits		128,206	(145,642)		(17,436)	26.98%	4,705	
19	Office Expenses		761,628	(46,186)		715,442	26.98%	193,056	
20	Depreciation		194,727		₩	194,727	26.98%	52,545	
21							•		
22	Total (Candadian dollars CAD)	₩.	5,125,785	(191,828)	\$	4,933,957	1	\$ 1,331,385	
23	Factor		1.00			1.00			
24	Total (US dollars USD)	↔	5,125,785	\$ (191,828)	\$	4,933,957	1	\$ 1,331,385	
52							i		
56	Infrastructure Cost Allocation per Direct (USD) ²	Direct	(USD) ²						
27									
78	Increase (decrease) in Infrastructure Allocated Costs (USD)	ire A∐	ocated Costs (L	(OSC					
59									
30									
31	Adjustment to Revenues and/or Expenses	xbeus	es						
32									
33	1 Per Response to JMM 5.5								
34	² Per Response to JMM 1.42								
32									

18,619 (1,097)

4,017

23.32% 23.32% 23.32% 12,254

23.32%

45,021

62,139 24,160 45,460 28,239 40,038 17,467

23.32% 23.32% 23.32% 23.32%

Rejoinder

by Customer Allocation LPSCo

Count

Allocation LPSCo

23.32% 23.32%

23.32%

1.00 310,479

↔

291,708

₩ ₩

18,771

18,771

s

310,479

¹ Per Response to JMM 5.5

² Per Response to JMM 1.42

Exhibit Rebuttal Schedule C-2 Page 12 Witness: Bourassa

Line <u>No.</u> 1 2 3	Interest S	ynchror	<u>nization</u>				
4	Fair Value	Rate E	Base		\$ 37,502,569		
5	Weighted	Cost of	Debt		1.14%		
6	Interest Ex					\$	428,410
7		-				_	
8	Test Year	Interes	t Expense		•	\$	432,478
9							(4.000)
10	Increase (decrea	se) in Interest	Expense			(4,068)
11							
12							
13				_		d.	4.069
14	Adjustmer	nt to Re	venue and/or	Expense	:	\$	4,068
15							
16							
17	Weighted Co	st of Deb	t Computation				Mainhtad
18					0		Weighted
19			Amount	Percent	Cost		Cost
20	Debt	\$	11,506,844	17.86%	6,39%		1.14%
21	Equity	\$	52,906,962	82.14%	12.00%		9.86%
22	Total	\$	64,413,805	100.00%			11.00%
23							
24							

25 26

Exhibit Rebuttal Schedule C-2 Page 13 Witness: Bourassa

	Adjustificite Number 12		
Line			
<u>No.</u> 1	Income Tax Computation		
2	income tax computation		
3		Test Year	Adjusted
4		Adjusted	with Rate
5		Results	<u>Increase</u>
6		(700.474)	¢ 6.020.955
7	Taxable Income before adjustments	\$ (738,174)	\$ 6,020,855
8	Adjustments to taxable Income	\$ (738,174)	\$ 6,020,855
9	Taxable Income	\$ (738,174)	Ψ 0,020,000
10			
11			
12 13	Income Before Taxes	\$ (738,174)	\$ 6,020,855
14	ancome before raxes		
15	Arizona Income Before Taxes		\$ 6,020,855
16	Alizona moone botole rakes		
17	Less Arizona Income Tax		\$ 419,533
18	Rate = 6.97%		
19	Arizona Taxable Income		\$ 5,601,322
20			e 440.522
21	Arizona Income Taxes		\$ 419,533
22	To A Maria Policia Touris		\$ 6,020,855
23	Federal Income Before Taxes		Ψ 0,020,000
24	Less Arizona Income Taxes		\$ 419,533
25 26	Less Alizona ilicome Taxes		
27	Federal Taxable Income		\$ 5,601,322
28			
29			
30			
31	FEDERAL INCOME TAXES:		
32	15% BRACKET		\$ 7,500
33	25% BRACKET		\$ 6,250 \$ 8,500 Federal
34	34% BRACKET		\$ 91,650 Effective
35	39% BRACKET		\$ 1,790,549 Tax
36	34% BRACKET		Rate
37 38	Federal Income Taxes		\$ 1,904,449 31.63%
39	redetal income raxes		
39 40			
41	Total Income Tax		\$ 2,323,982
42			
43	Overall Tax Rate		38.60%
44			
45	Income Tax at Proposed Rates Effective Rate	\$ (284,927)	
46		-	

Litchfield Park Service Company - Water Division

Test Year Ended September 30, 2008 Computation of Gross Revenue Conversion Factor Exhibit Rebuttal Schedule C-3 Page 1

Witness: Bourassa

		Percentage
		of
		Incremental
Line		Gross
No.	Description	Revenues
1	Federal Income Taxes	31.63%
2		
3	State Income Taxes	6.97%
4		/
5	Other Taxes and Expenses	0.00%
6		
7		20.600/
8	Total Tax Percentage	38.60%
9		64.409/
10	Operating Income % = 100% - Tax Percentage	61.40%
11		
12		
13		
14		
15	1 = Gross Revenue Conversion Factor	4.0000
16	Operating Income %	1.6286
17		DECAR COLLEGE IN EC.
18	SUPPORTING SCHEDULES:	RECAP SCHEDULES:
19		Rebuttal A-1
20		

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008

Cost of Service Study, Using Commodity Demand Method Operating Margins at Present Rates

Rebuttal Schedule G-1 Witness: Bourassa Page 1

							Meter Size				
Meter Size->		Totals	5/8" x 3/4"		3/4"	-	1 1/2"	5".	. 4	8 8	10"
Water Revenues	↔	6,722,618 \$	33,349	69	2,072,857 \$	2,169,094 \$	266,823 \$	1,570,524 \$	188,685 \$	403,707 \$	17,579
Revenue Annualizations		27,680	1,256		(8,559)	(7,229)	8,052	23,091	11,068	•	. •
Misc. Revenues ¹		127,522	926	,_	74,622	45,235	1,500	5,011	173	16	∞
Reconcilation H-1 to C-11		890	7		521	316	10	35	~	0	0
Total Revenues	s	6,878,710 \$	\$ 35,568	8	2,139,441 \$	2,207,416 \$	276,385 \$	1,598,661 \$	199,928 \$	403,723 \$	17,587
Operating Expenses ²	↔	4,521,711 \$	\$ 21,905	↔	1,845,629 \$	1,517,414 \$	140,826 \$	714,149 \$	92,183 \$	179,765 \$	9,840
Amortization ²		2,287,267	8,765		955,166	873,684	56,277	337,744	33,559	15,892	6,179
Property Tax3		379,495	1,962	٥.	118,032	121,782	15,248	88,197	11,030	22,273	970
Income Tax⁴		(284,927)	482	_	(368,747)	(182,579)	20,424	153,437	21,887	70,423	(254)
Total Operating Expenses	જ	6,903,546 \$	\$ 33,114	\$	2,550,079 \$	2,330,302 \$	232,775 \$	1,293,527 \$	158,659 \$	288,354 \$	16,736
Operating Income	69	(24,836) \$	\$ 2,453	⇔	(410,639) \$	(122,886) \$	43,610 \$	305,134 \$	41,269 \$	115,369 \$	852
Interest Expense ⁵		432,493	1,679	,	181,228	170,166	10,827	58,857	6,140	2,335	1,259
Net Income	63	(457,329) \$	\$ 774	\$	(591,867)	(293,052) \$	32,783 \$	246,277 \$	35,130 \$	113,034 \$	(407)
Rate Base ⁶	ь	37,481,469 \$	\$ 145,539	\$	15,705,959 \$	14,747,263 \$	938,327 \$	5,100,776 \$	532,077 \$	202,391 \$	109,138
Return on Rate Base ⁷		%20:0-	1.69%	%	-2.61%	-0.83%	4.65%	5.98%	7.76%	57.00%	0.78%
Percent of Total Customers			0.75%	%	58.52%	35.47%	1.18%	3.93%	0.14%	0.01%	0.01%

¹ Allocated based on customer counts.

² Operating Expenses and Depreciation computations are shown on Schedule G-4, Page 1.

³ Property Taxes allocation based on Revenues

⁴ Income Tax from Schedule C-1, at Proposed Rates. Income Taxes allocated based on taxable income

⁵ Interest Synchronized Interest Expense. Allocation based on Rate Base

⁶ Rate Base computations are shown on Schedule G-3, Page 1

⁷ Operating Income Divided by Rate Base $\frac{N}{N} = \frac{1}{N} = \frac{1}$

⁸ 8 Inch customer (Goodyear) is expected to leave system in the future. See testimony of Greg Sorenson.

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008

Cost of Service Study, Using Commodity Demand Method Operating Margins at Proposed Rates

Rebuttal Schedule G-2 Witness: Bourassa Page 1

E L L																	
Š	Meter Size->		Totals	2/8" x	"×3/4"	3/4"			<u>-</u>		1 1/2"	2".		<u>*</u> 4			10"
-	Water Revenues	Θ	13,484,305	⇔	55,215	\$ 4,79	4,799,610 \$		4,908,287	• •	472,621 \$	2,440,382	63	320,754 \$		\$ 265	31,839
7	Revenue Annualizations		26,015		2,035	Ē	(19,345)		(15,445)		13,941	27,156		17,673	•		
ო	Misc. Revenues ¹		127,522		926	7	74,622		45,235		1,500	5,011		173		16	۵
4	Reconcilation H-1 to C-11		(104)		(1)		(61)		(37)		£	4)		0)		9	0
2	Total Revenues	↔	13,637,737	s	58,205	\$ 4,85	4,854,827 \$		4,938,040	₩	488,060 \$	2,472,545	ક	338,599 \$	455,614	614 \$	31,847
9																	
7	Operating Expenses ²	₩	4,521,711	63	21,905	\$ 1,84	1,845,629 \$		1,517,414	₩	140,826 \$	714,149	₩	92,183 \$		179,765 \$	9,840
œ	Depreciation and														•		
თ	Amortization ²		2,287,267		8,765	95	955,166		873,684		56,277	337,744		33,559	15,	15,892	6,179
10	Property Tax ³		379,495		1,620	13	135,094		137,410		13,581	68,803		9,422	12,	12,678	886
7	Income Tax ⁴		2,323,982		9,361	67	671,192		864,957		102,955	499,419		76,205	94	94,609	5,285
12	Total Operating Expenses	ક્ક	9,512,455	ક્ર	41,651	\$ 3,60	3,607,081	\$ 3	3,393,465	8	313,639 \$	1,620,115	49	211,370 \$		302,945 \$	22,190
13	Operating Income	69	4,125,282	s>	16,554	\$ 1,24	1,247,747	\$	1,544,576	s	174,421 \$	852,430	S	127,229 \$	ľ	152,669 \$	9,657
4	Interest Expense ⁵		432,493		1,679	18	181,228		170,166		10,827	58,857		6,140	2	2,335	1,259
15	Net Income	↔	3,692,790	S	14,875	\$ 1,06	1,066,518	\$	1,374,409	s	163,594 \$	793,573	₩	121,090 \$		150,333 \$	8,397
9	Rate Base ⁶	€5	37,481,469	69	145,539	\$ 15,70	15,705,959	\$ 14	14,747,263	s	938,327 \$	5,100,776	s,	532,077 \$		202,391 \$	109,138
1,	Return on Rate Base ⁷		11.01%		11.37%		7.94%		10.47%		18.59%	16.71%		23.91%	75	75.43%	8.85%
9																	
19	Percent of Total Customers		•		0.750%	58	58.518%		35.472%		1.176%	3.929%		0.136%	0.0	0.013%	0.006%
20																	
7																	
22	Allocated based on customer counts.	er coun	its.														
23	² Operating Expenses and Depreciation computations are shown on Schedule G-4, Page 1.	preciati	on computation	ns are	shown on S	chedule	G-4, Pag	ge 1.									
24	³ Property Taxes allocation based on Revenues	sed on	Revenues														
25	⁴ Income Tax from Schedule C-1, at Proposed Rates. Incom	7-1, at F	Proposed Rate:	s. Inc	ome Taxes	illocated	based or	n taxa	le Taxes allocated based on taxable income								
56	⁵ Interest Synchronized Interest Expense. Allocation based on Rate Base	st Expe	nse. Allocation	n base	d on Rate B	ase											
27	⁶ Rate Base computations are shown on Schedule G-3, Page	shown	on Schedule (3-3, P.	age 1												
28	⁷ Operating Income Divided by Rate Base	/ Rate t	Base														
29	⁸ 8 Inch customer (Goodyear) is expected to leave system in the future. See testimony of Greg Sorenson.	is exp	ected to leave	systen	n in the futur	e. See te	estimony	of Gr	eg Sorensc	Ë							

² Operating Expenses and Depreciation computations are shown on Schedule G-4, Page 1.

³ Property Taxes allocation based on Revenues

⁴ Income Tax from Schedule C-1, at Proposed Rates. Income Taxes allocated based on taxable income

⁵ Interest Synchronized Interest Expense. Allocation based on Rate Base

⁶ Rate Base computations are shown on Schedule G-3, Page 1

⁷ Operating Income Divided by Rate Base

 $^{^{8}}$ 8 Inch customer (Goodyear) is expected to leave system in the future. See testimony of Greg Sorenson.

	10.		1,764	104,891	162	643	1,678	109,138	109,138	0.29%
	[w	e 1)	51,490 \$	145,935	324	1,287	3,355	\$ 202,391 \$ 109,138	202,391	0.54%
e G-3	<u>.</u> 4	edule G-5, Pag	147,901 \$ 21,584 \$	478,849	3,402	9,684	18,558	\$ 532,077	938,327 \$ 5,100,776 \$ 532,077 \$ 202,391 \$ 109,138	1.42%
Exhibit Rebuttal Schedule G-3 Page 1 Witness: Bourassa	l	Tax (from Sch	147,901	4,436,424	98,506	139,347	278,598	5,100,776 \$ 532,077	5,100,776	13.61%
R R E	1 1/2"	Deferred Income	28,028 \$	830,005	29,487	27,641	23,166	938,327 \$	938,327 \$	2.50%
i on Aethod	- -1	ter Deposits, and	172,287 \$	12,516,206	889,308	750,266	419,195	14,747,263 \$	14,747,263 \$	39.35%
y - Water Divis ber 30, 2008 odity / Demand I omer Classes	3/4"	utions in Aid, Me	₩	12,388,512	1,467,059	1,112,667	559,811	2,705,959 \$	5,705,959 \$	41.90%
field Park Service Company - Water Div Test Year Ended September 30, 2008 Service Study Using Commodity / Demand Allocation of Assets to Customer Classes	5/8 × 3/4"	ances and Contrib	↔	105,803 1	18,794	14,254	4,359	145,539 \$ 1	145,539 \$ 1	0.39%
Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Cost of Service Study Using Commodity / Demand Method Allocation of Assets to Customer Classes	Totals 50	d Depreciation, Adv	603,292 \$	31,006,625	2,507,043	2,055,790	1,308,720	\$ 37,481,469 \$ 145,539 \$ 15,705,959 \$ 14,747,263	\$ 37,481,469 \$ 145,539 \$ 15,705,959 \$ 14,747,263 \$	100.00%
ŏ		Plant, Minus Accumulated Depreciation, Advances and Contributions in Aid, Meter Deposits, and Deferred Income Tax (from Schedule G-5, Page 1)	Commodity \$	Demand	Customer	Service	Meter	. ,	Net Rate Base \$	Allocation %

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Cost of Service Study, Using Commodity Demand Method Allocation of Expenses to Customer Classes

Exhibit Rebuttal Schedule G-4 Page 1 Witness: Bourassa

Operation and Maintenance Expense (from Schedule G-6, Page 1) Special or Schedule G-6, Page 1) Commodity Liff, 525 Sex, 348	:	3		Totals	2/8	5/8 × 3/4"	3/4"		- -		1 1/2"	J.,	4	<u></u>		10	
1,17,525 3,813 446,501 451,103 29,915 159,895 17,258 5,260 1,361,604 10,207 796,777 482,994 16,015 53,500 17,258 5,260 G-6, Page 2) 1,361,604 10,207 796,777 482,994 16,015 53,500 1,848 179,765 G-6, Page 2) 1,361,714 1,40,826 1,517,414 1,40,826 71,4149 9,21,83 179,765 G-6, Page 2) 25,391 24,588 4,000 21,108 3,080 7,348 1,607,576 5,485 642,297 648,918 43,033 230,012 24,827 7,566 114,848 861 67,206 40,739 1,351 4,513 156 15 136,475 946 73,865 49,807 1,835 9,251 643 87 \$ 2,287,267 \$ 955,166 \$ 873,684 56,277 337,744 \$ 33,559 \$ 15,892 \$ 2,323,982 \$ 9,512,455 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658	Operation and Maintenance E Commodity	xpense (from Sche	edule (~	€9						94.896		73 077				5
1,361,604 10,207 796,777 482,994 16,015 53,500 1,848 176 \$ 4,521,711 \$ 21,905 \$ 1,845,629 \$ 1,517,414 \$ 140,826 \$ 774,149 \$ 92,183 \$ 179,765 G-6, Page 2) 86,101 332 25,391 24,588 4,000 21,108 3,080 7,348 1,607,576 5,485 642,297 648,918 43,033 230,012 24,827 7,566 114,848 861 67,206 40,739 1,351 4,513 156 15 136,475 946 73,865 49,807 1,835 9,251 643 85 3 136,475 \$ 8,765 \$ 955,166 \$ 873,684 \$ 56,277 \$ 337,744 \$ 33,559 \$ 15,892 \$ 5,808,978 \$ 30,670 \$ 2,800,795 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 9,512,455 \$ 9,512,455 \$ 9,512,455	Demand										29,915		17,258	:			10
G-6, Page 2) 86,101 332 25,391 24,588 4,000 21,108 3,080 7,348 86,101 332 25,391 24,888 4,000 21,108 3,080 7,348 1,607,576 15,607,506 10,739 1,400 1,400 1,400 1,400 1,400 1,507,548 1,517,414 1,400 1,507,548 1,517,414 1,400 1,507,548 1,507 1,400 1,400 1,507 1,400 1,507 1,506 1,507 1,400 1,400 1,507 1,506 1,507 1,506 1,5	Customer			1,361,604		10,207	196,	777	482,994	_	16,015	53,500	1,848		176	ã	- φ
\$ 4,521,711 \$ 21,905 \$ 1,845,629 \$ 1,517,414 \$ 140,826 \$ 714,149 \$ 92,183 \$ 179,765 G-6, Page 2) 86,101 332 25,391 24,588 4,000 21,108 3,080 7,348 1,607,576 5,485 642,297 648,918 43,033 230,012 24,827 7,566 114,848 861 67,206 40,739 1,351 4,513 156 15 136,475 946 73,865 49,807 1,835 9,251 643 87 \$ 2,287,267 \$ 8,765 \$ 955,166 \$ 873,684 \$ 56,277 \$ 337,744 \$ 33,559 \$ 15,892 \$ 379,495 \$ 3,79,495 \$ 3,79,495 \$ 3,79,495 \$ 3,79,495 \$ 3,79,495 \$ 3,79,495 \$ 2,323,982 \$ 4,000 21,108 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 4,000 21,108 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 3,79,495 \$ 3,79,495 \$ 3,79,495 \$ 3,79,495 \$ 3,79,495 \$ 3,79,495	Service			•					•			•				•	
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	Meter			•		•		,	•		,	ı	•			,	
G-6. Page 2) 332 25,391 24,588 4,000 21,108 3,080 7,348 1,607,576 5,485 642,297 648,918 43,033 230,012 24,827 7,566 114,848 861 67,206 40,739 1,351 4,513 156 15 136,475 946 73,865 49,807 1,835 9,251 643 85 \$ 2,287,267 \$ 8,765 955,166 \$ 873,684 \$ 56,277 \$ 337,744 \$ 15,892 \$ 6,808,978 \$ 30,670 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 15,892 \$ 9,512,455	Totals		\$,521,711	₽)	1 1		ΙI	1 1	H	140,826		92,183		ı	ı	lo
86,101 332 25,391 24,588 4,000 21,108 3,080 7,348 1,607,576 5,485 642,297 648,918 43,033 230,012 24,827 7,566 114,848 861 67,206 40,739 1,351 4,513 156 15 136,475 946 73,865 49,807 1,835 9,251 643 87 \$ 2,287,267 1,140 146,406 109,631 6,058 72,861 4,853 878 \$ 2,287,267 \$ 8,765 955,166 \$ 873,684 56,277 \$ 337,744 \$ 33,559 \$ 15,892 \$ 2,323,982 \$ 30,670 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 15,658 \$ 9,512,455	Depreciaton Expense on Pla	nt (from Schedule G	9-6 P	age 2)													
1,607,576 5,485 642,297 648,918 43,033 230,012 24,827 7,566 114,848 861 67,206 40,739 1,351 4,513 156 15 136,475 946 73,865 49,807 1,835 9,251 643 85 \$ 2,287,267 1,140 146,406 109,631 6,058 72,861 4,853 878 \$ 2,287,267 \$ 8,765 955,166 \$ 873,684 56,277 \$ 337,744 \$ 33,559 \$ 15,892 \$ 6,808,978 \$ 30,670 \$ 2,800,795 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 2,323,982 \$ 9,512,455	Commodity			86,101		332	25,	391	24,588	_	4,000	21,108	3,080	7	348	25	2
114,848 861 67,206 40,739 1,351 4,513 156 15 136,475 946 72,865 49,807 1,835 9,251 643 85 342,267 1,140 146,406 109,631 6,058 72,861 4,853 878 \$ 2,287,267 \$ 8,765 \$ 955,166 \$ 873,684 \$ 56,277 \$ 337,744 \$ 33,559 \$ 15,892 \$ 6,808,978 \$ 30,670 \$ 2,800,795 \$ 2,331,098 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 9,512,455 \$ 9,512,455 \$ 2,321,098 \$ 197,103 \$ 1,051,893 \$ 155,742 \$ 195,658	Demand			1,607,576		5,485	642,	297	648,918	_	43,033	230,012	24,827	7	.566	5.43	00
136,475 946 73,865 49,807 1,835 9,251 643 85 342,267 1,140 146,406 109,631 6,058 72,861 4,853 878 \$ 2,287,267 \$ 8,765 \$ 955,166 \$ 873,684 \$ 56,277 \$ 337,744 \$ 33,559 \$ 15,892 \$ 6,808,978 \$ 30,670 \$ 2,800,795 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 9,512,455 \$ 9,512,455 \$ 2,321,982 \$ 9,512,455	Customer			114,848		861	67,	206	40,73	•	1,351	4,513	156		15		/
\$ 342.267 1,140 146,406 109,631 6,058 72,861 4,853 878 \$ 2,287,267 \$ 8,765 \$ 955,166 \$ 873,684 \$ 56,277 \$ 337,744 \$ 33,559 \$ 15,892 \$ 6,808,978 \$ 30,670 \$ 2,800,795 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 2,323,982 \$ 9,512,455	Service			136,475		946	73,	865	49,80		1,835	9,251	643		85	4	n
\$ 2,287,267 \$ 8,765 \$ 955,166 \$ 873,684 \$ 56,277 \$ 337,744 \$ 33,559 \$ 15,892 \$ 6,808,978 \$ 30,670 \$ 2,800,795 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 2,323,982 \$ 9,512,455	Meter	•		342,267		1,140	146,	406	109,63		6,058	72,861	4,853		878	43	0
\$ 6,808,978 \$ 30,670 \$ 2,800,795 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 379,495 2,323,982 \$ 9,512,455	Totals		S		⇔						56,277		33,559		ı	ı	စ
\$ 6,808,978 \$ 30,670 \$ 2,800,795 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 379,495 \$ 2,323,982 \$ 9,512,455																	
\$ 6,808,978 \$ 30,670 \$ 2,800,795 \$ 2,391,098 \$ 197,103 \$ 1,051,893 \$ 125,742 \$ 195,658 \$ 379,495 \$ 2,323,982 \$ 9,512,455	Total Expenses (excluding Income Tax and	Income Tax and															
69 89	Property Taxes)	•	\$	808,978	ક			1		69	197,103			\$ 195		16,01	6
\$ \$		ı															
\$	Property Taxes, Allocated on Schedules G-1 & G-2		€9	379,495													
	Income Tax, Allocated on Schedules G-1 & G-2 Total Expenses	dules G-1 & G-2	J	9 512 455													
	י סומו באסטופפפ	H	•	0,014,00													

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Cost of Service Study, Using Commodity Demand Method
Summary of Allocation of Expenses to Customer Classes

Exhibit Rebuttal Schedule G4 Page 2 Witness: Bourassa

Line			Totals	2/8	5/8 × 3/4"	3/4"	뒤	1 1/2"	2".	<u>*</u> 4		10"
<u>-</u>	Commodity	↔	2,128,683	€9	8,217 \$	627,742 \$	\$ 906'209	\$ 78,897	521,862 \$	76,157 \$	181,678 \$	6,224
~	Demand		2,725,101		9,299	1,088,798	1,100,021	72,947	389,907	42,085	12,826	9,219
က	Customer		1,476,452		11,068	863,983	523,733	17,366	58,012	2,004	191	92
4	Service		136,475		946	73,865	49,807	1,835	9,251	643	85	43
ιΩ	Meter		342,267		1,140	146,406	109,631	6,058	72,861	4,853	878	439
9 1												
- 00	Totals	ss.	6,808,978	8	30,670 \$	2,800,795 \$	2,391,098 \$	197,103 \$ 1,051,893	1,051,893 \$	125,742 \$ 195,658	195,658 \$	16,019
6												
9												
7												
12												
13	Total Expenses (excluding Income Tax and											
4	Property Taxes)	s	6,808,978	s	30,670 \$	30,670 \$ 2,800,795 \$	2,391,098 \$	197,103 \$	197,103 \$ 1,051,893 \$	li li	125,742 \$ 195,658 \$	16,019
15												
16	Property Taxes, Allocated on Schedules G-1 & G-2	ω	379,495									
17	Income Tax, Allocated on Schedules G-1 & G-2		2,323,982									
18	Total Expenses	s	9,512,455									
19												

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Cost of Service Study, Using Commodity Demand Method
Allocation of Rate Base by Function

Exhibit Rebuttal Schedule G-5 Page 1 Witness: Bourassa

	Adi	Adjusted	Demand	뒤	Customer	Meter	Service	Totals
Plant minus (Accumulated Depreciation Contributions in Aid of Construction Advances in Aid of Construction, Meter Deposits and Deferred Income Tax)	37	,481,469 \$	37,481,469 \$ 31,006,625 \$		603,292 \$ 2,507,043 \$ 1,308,720 \$ 2,055,790 \$ 37,481,469	1,308,720	2,055,790 \$	37,481,469
ω ~ α								
റത	37	37,481,469	31,006,625	603,292	2,507,043	1,308,720	1,308,720 2,055,790 37,481,469	37,481,469
10								
17								
12								
13								
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18								
19								
20								
21								

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Allocation of Plant, Less Contributions and Advances in Aid of
Construction , Meter Deposits and Accumulated Depreciation to Functions

Exhibit Rebuttal Schedule G-5 Page 2 Witness: Bourassa

Service					,		3,349,045		3,349,045	30.126 16,237	
Meter	•	.			\$	<i>ω</i>		2,207,123	2,207,123 \$		
		↔	ŀ		\$	<i>φ</i>		2,1,891,868	1,891,868 \$ 2	426,770 70,579	73,485
Customer		67	170	14,587 31,902	.658 \$	318,259 318,259 \$	26,490 508,437	1,89 3,084 22,603	€	α	
Commodity		69	176,170	14, 31,	\$ 222,658	\$ 318,	₩	2	\$ 2,560,614		
Demand		1,284,595 24,244,382	1,585,528	131,279	27,532,900	2,864,327	238,409 22,575,931	27,757 203,43 <u>0</u>	23,045,527	23,526	24,495
Total Net Plant <u>Values</u> -		1,284,595 \$ 24,244,382	1,761,697	145,866 319,017	27,755,558 \$	3,182,586 \$ 3,182,586 \$	264,898 \$ 25,084,367 3,349,045	2,207,123 1,891,868 30,842 226,034	33,054,177 \$	426,770 94,106 30,126 16,237	- 64,980
Accumulated Depreciation \$		\$ 404,869 `	631,793	56403.40902 598,038	1,691,103 \$	41,009 \$ 41,009 \$	174,345 \$ 3,844,803 990,699	1,931,628 163,913 7,546 33,49 <u>7</u>	7,056,432 \$	124,987 \$ 83,060 1,586 7,113	21,730
Original Aα Plant Des	•	1,284,595 24,649,251	2,393,491	202,269 5i 917,055	29,446,661 \$	3,223,594 \$	439,244 \$ 28,929,171 4,249,744	4,138,752 2,055,781 38,387 259,531	40,110,609 \$	551,757 \$ 177,165 31,711 23,350	119,710
₩		↔			မှာ	မာမ	€9	i	∽	↔	
<u>Description</u> Organization Franchises	ble	Source of Supply & Pumping Plant 303 Land and Land Rights 304 Structures and Improvements 305 Collecting and Impounding Res.	Lakes, Kivers, Other makes Wells and Springs Infiltration Galleries and Tunnels Scoot Mains	Supply Malis Power Generation Equipment Electric Pumping Equipment	Subtotal Source of Supply & Pumping Plant	atment Water Treatment Equipment Vater Treatment	Transmission and Distribution Plant 330 Distribution Reservoirs & Standpipe 331 Transmission and Distribution Mains 333 Services	Meters Hydrants Backflow Prevention Devices Other Plant and Miscellaneous Equip.	Subtotal Transmission and Distribution Plant	ant Office Furniture and Fixtures Transportation Equipment Stores Equipment Tools and Work Equipment	Power Operated Equipment Communications Equipment
Account No. Descr Intangible 301 Organ	Subtotal Intangible	Source of Suppl 303 Land 304 Struct 305 Collect	307 Vells 307 Wells 308 Infiltra		ubtotal Source of	Water Treatment 320 Water Treatmen Subtotal Water Treatment	Fransmission and I 330 Distributio 331 Transmis 333 Services	334 Meters 335 Hydrants 336 Backflow 339 Other Plar	Subtotal Transmis:	General Plant 340 Office 341 Trans 342 Store 343 Tools 344 Labo	
Line No. 4			= 2 t t	<u>t</u> to 6		-	22 24 25 25 2 26 24 24 24 24 24 24 24 24 24 24 24 24 24	28 29 30		28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	& 4

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Allocation of Plant, Less Contributions and Advances in Aid of
Construction, Meter Deposits and Accumulated Depreciation to Functions

Exhibit Rebuttal Schedule G-5 Page 2.1 Witness: Bourassa

		Original		Total					
		Cost	Accumulated	Net Plant					
Line	Account	Plant	Depreciation	Values	Demand	Commodity	Customer	Meter	Service
S N	No. Description						4		
-	General Plant Continued				•				
7	347 Miscellaneous Equipment	•	,	•			•		
က	348 Other Tangible Plant	1	•	•					
4	Subtotal General Plant	\$ 903,694 \$	238,476 \$	\$ 665,218 \$	48,021 \$	-	570,834 \$	5	46,363
ς	Total Plant	\$ 73,684,558 \$		9,027,020 \$ 64,657,538 \$	53,490,775 \$	3,101,531 \$	3,101,531 \$ 2,462,702 \$	2,207,123 \$	3,395,408
9									
7	Contributions in Aid of Construction, Net	(3,096,180)	860,706	(2,235,474)	(1,977,529)	(219,725)	(38,220)		
80	Advances in Aid of Construction	(22,336,975)		(22,336,975)	(20,103,277)	(2,233,697)			
თ	Meter Deposits	(2,238,022)		(2,238,022)				(898,404)	(1,339,618)
10	Deferred Income Tax	(448,160)		(448,160)	(403,344)	(44,816)		•	
+	Deferred Reg Assets	82,561		82,561			82,561		
12	Unamortized Debt Service Costs	ı		•			,		
13	3 Totals	\$ 45,647,783 \$		9,887,726 \$ 37,481,469 \$ 31,006,625	31,006,625 \$	603,292 \$	603,292 \$ 2,507,043 \$	1,308,720 \$	2,055,790
4	14 Rate Bases (Plant -(AIAC, CIAC, Meter Deposits & Accum. Depr.)	. Depr.)	97	\$ 37,481,469 \$	31,006,625 \$	603,292 \$	2,507,043 \$	1,308,720 \$	2,055,790

Cost of Service Study, Using Commodity Demand Method Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Allocation of Expenses to Functions

Rebuttal Schedule G-6 Page 1 Witness: Bourassa

	Line			:					
·	No. Description	Adjusted	Demand	Commodity	Customer	Meter	Service	lotais	
	1 Salaries and Wages ¹	' \$	' ₩	, ⇔	, ↔	, \$	' ₩	·	
	2 Purchased Water ¹	5,011		5,011				5,011	
	3 Purchased Power ¹	1,013,811	1	1,013,811		1	•	1,013,811	
	4 Fuel For Power Production ¹	37,839	1	37,839	ı	ı	•	37,839	
	5 Chemicals ¹	502,973	1	502,973	1	•	1	502,973	
	6 Repairs and Maintenance ¹	44,001	39,600	4,400	•	•	ı	44,001	
	7 Office Supplies and Expense	•			•			•	
	8 Outside Services	12,469			12,469			12,469	
	9 Outside Services - Other	2,378,567	951,427	475,713	951,427	,	ı	2,378,567	
	10 Outside Services - Legal	14,317			14,317			14,317	
	11 Water Testing ¹	28,365	25,529	2,837	•	1	•	28,365	
	12 Rents	10,647			10,647			10,647	
	13 Transportation Expenses	151,879	37,970	ŧ	113,909	•	ı	151,879	
		95,469			95,469			95,469	
	15 Insurance - Health and Life	3,319			3,319			3,319	
	-	63,662			63,662			63,662	
	17 Reg. Comm. Exp Rate Case	20,000	63,000		7,000			20,000	
	18 Miscellaneous Expense	80,837			80,837			80,837	
	19 Bad Debt Expense	8,548			8,548			8,548	
	20 Depreciation Expense ²	2,287,267	1,607,576	86,101	114,848	342,267	136,475	2,287,267	
	21 Taxes Other Than Income	1	1					•	
	ш	379,495							
	23 Income Tax, Allocated on Schedules G-1 & G-2	2,323,982							
	24								
	25 Total	\$ 9,512,455	\$2,725,101	\$2,128,683	\$ 1,476,452	\$ 342,267	\$ 136,475	\$ 6,808,978	
	26								
	27								
	28 ¹ See Schedule G-7, page 2.1,								
		G-6 Page 2.							
	31								
	32								
	1	•							

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Allocation of Depreciation Expense to Functions

Exhibit Rebuttal Schedule G-6 Page 2 Witness: Bourassa

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Allocation of Depreciation Expense to Functions

Exhibit Schedule Page 2.1 Witness: Bourassa

9-6

Service		,	141,516					(5,042)			\$ 136,475			•		
Meter		دی ا	344,758 \$						(2,491)		\$ 342,267 \$					
Customer		\$ 74,791 \$	92,000 \$ 115,907 \$ 344,758 \$ 141,516							(1,059)	\$ 114,848 \$					
Commodity		 					(2,709)				86,101 \$					
<u>Demand</u> C		11,851 \$	1,660,671 \$			(1,712) \$	(51,383)				\$ 1,607,576 \$ 86,101	÷				
Total Depr. Expense D	1 1	86,642 \$	2,354,852 \$			(1,902) \$	(57,092)	(5,042)	(2,491)	(1,059)	\$ 2,287,267 \$					
		86,642 \$	2,354,852 \$ 2			(1,902) \$	(57,092)	(5,042)	(2,491)	(1,059)	2,287,267 \$ 2					
Ϊο Ο	10.00% 10.00%	₩	\$ 2,3			\$ %00) %00	%00	%00	%00	\$ 2,2					
Deprecial <u>Rate</u>	10.0	,	ı) 12.5000%	2.0000%	3.3300%	8.3300%	2.0000%	ı~	ı				
Original Cost	1 1	903,694	73,684,558			(15,219)	(2,854,613)	(151,402)	(29,899)	(52,935)	(3,104,068)					
Ö		ક્ક	s			()										
<u>Description</u>	348 Other Tangible Plant	I Plant			Less: Amortization of Contributions	Electric Pumping Equipment	Trans. and Dist. Mains	Se		ıts	n Expense					
Account No. General Plant Continued	347 Miscell 348 Other	Subtotal General Plant	Total Plant		.ess: Amortizatic	311 Electri	331 Trans.		334 Meters		Total Depreciation Expense					
S S	- 0 w		5	4 0		တ	9	=	12	13	4	15	16	17	18	19

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Summary of Commodity - Demand Method Functions Factors

Exhibit Rebuttal Schedule G-7 Page 1 Witness: Bourassa

Line No.										
. 2	Description	5/8" × 3/4"	3/4"	1.1	1 1/2"	2"	#4	<u>*</u> &	10"	Totals
ო	Commodity	0.386%	29.490%	28.558%	4.646%	24.516%	3.578%	8.535%	0.29%	100.00%
4	Demand	0.341%	39.954%	40.366%	2.677%	14.308%	1.544%	0.471%	0.34%	100.00%
2	Customer	0.750%	58.518%	35.472%	1.176%	3.929%	0.136%	0.013%	0.01%	100.00%
9	Services	0.693%	54.124%	36.495%	1.345%	6.778%	0.471%	0.063%	0.03%	100.00%
7	Meters	0.333%	42.775%	32.031%	1.770%	21.288%	1.418%	0.256%	0.13%	100.00%
ω										
თ										
10										
7										
12	SUPPORTING SCHEDULES	ωl								
13	G-7, page 3									

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 COMMODITY - DEMAND METHOD FUNCTION FACTORS Plant and Depreciation Expense Allocations Functions

Exhibit Rebuttal Schedule G-7 Page 2 Witness: Bourassa

Line					
<u>No.</u>					
1					
2	<u>Description</u>	<u>Total</u>	<u>Demand</u>	Commodity	<u>Customer</u>
3	Wells	1.00	0.90	0.10	
4	Pumps & Equipment	1.00	0.90	0.10	
5	Trans. & Dist. Mains	1.00	0.90	0.10	
6	Structures & Improv.	1.00	1.00		
7	Land	1.00	1.00		
8	Customer	1.00			1.00
9	Services	1.00			1.00
10	Meters	1.00			1.00
11	Fire Hydrants	1.00	•		1.00
12	Transportation Equip.	1.00	0.25		0.75
13	Office Furniture	1.00			1.00
14	Communication Equip.	1.00	0.25		0.75
15	Water Treatment Equip.	1.00	0.90	0.10	
16					
17					
18					
19					

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008

Exhibit Rebuttal Schedule G-7 ă

N -							
-							
-	Expense Type	Total	Demand	Commodity	Customer	Meters	Services
7	Repairs and Maintenance1	1.00	06.0	0.10	•	•	•
ന	Contractual Services ²	1.00	0.40	0.20	0.40	•	•
4	Purchased Power/Fuel for Power Prod.3	1.00	•	1.00	,	•	•
2	Purchased Water ⁴	1.00	•	1.00	•	٠	1
9	Transportation ⁵	1.00	0.25	•	0.75	•	ı
7	Chemicals ⁶	1.00	•	1.00	•	•	1
ω	Water Testing ⁷	1.00	0.90	0.10	•	•	,
თ	Salaries and Wages ⁸	1.00	0.40	0.20	0.40	•	
2 9							
12							
13	¹ Estimated based on examination of costs in repairs and maintenance and professional judgement	repairs and ma	intenance a	nd professions	al judgement.		
14	² Estimated based on examination of costs included in contractual services and professional judgement.	cluded in contr	actual servic	ses and profes	sional judgerr	ent.	
15	3 100% related to pumping and water production.	ion.					
16	4 100% related to pumping and water production.	ion.					
17	⁵ Based on allocation of transportation equipment. See G-7, page 2.	nent. See G-7	page 2.				
18	⁶ 100% related to water production.						
19	7	nent. See G-7	, page 2.				
20	⁸ The Company does not have recorded salaries and wages expense. See allocation of contractual services.	ries and wages	expense.	See allocation	of contractual	services.	
21							
22							
23							
24							
(

Test Year Ended September 30, 2008

Cost of Service Study, Using Commodity Demand Method **Development of Class Allocation Factors**

Exhibit

Rebuttal Schedule G-7

Page 3

Witness: Bourassa

COMMODITY ALLOCATION FACTOR

DEMAND	ALLOCATION	FACTOR

t.UJIVID	NODILI ALLOCA	HON I ACION					
<u> </u>		<u> </u>				Equivalent	
	(a)			Number		Number	
	Total Gallons	Percent		of Meters	Equiv-	of Meters	Percent
	(in 1,000's)	of	Meter	and/or	alent	and/or	of
Meter Size	In Test Year	Total	<u>Size</u>	Services	Weight	<u>Services</u>	<u>Total</u>
5/8" x 3/4"	13,649	0.39%	5/8" x 3/4"	116	1.0	116	0.34%
3/4"	1,042,724	29.49%	3/4"	9,055	1.5	13,583	39.95%
1"	1.009.774	28.56%	1"	5,489	2.5	13,723	40.37%
1-1/2"	164,274	4.65%	1-1/2"	182	5.0	910	2.68%
2"	866,848	24.52%	2"	608	8.0	4,864	14.31%
3"	-	0.00%	3"	-	16.0	0	0.00%
4"	126,502	3.58%	4"	21	25.0	525	1.54%
6"	120,002	0.00%	6"	-	50.0	0	0.00%
8"	301,780	8.535%	8"	2	80.0	160	0.47%
10"	10,338	0.292%	10"	1	115.0	115	0.34%
Totals	3,535,889	100.00%	Totals	15,474	•	33,995	100.00%
lutais	0,000,000	100.0070			-		

CUSTOMER ALLOCATION FACTOR

SERVICES ALLOCATION FACTOR (b)

		Percent		Number	Install-	Weighted	Percent
Meter	Number	of	Meter	of	ation	Number	_of
Size	of Meters	<u>Total</u>	<u>Size</u>	Services	<u>Cost</u>	<u>Services</u>	<u>Total</u>
5/8" x 3/4"	116	0.75%	5/8" x 3/4"	116	\$ 445.00	51,620	0.69%
3/4"	9,055	58.52%	3/4"	9,055	445.00	4,029,475	54.12%
1"	5,489	35.47%	1"	5,489	495.00	2,717,055	36.50%
•	182	1.18%	1-1/2"	182	550.00	100,100	1.34%
1-1/2"		3.93%	2"	608	830.00	504,640	6.78%
2"	608		3"	0	1.165.00	0	0.00%
3"	-	0.00%		21	1,670.00	35.070	0.47%
4"	21	0.14%	4"			•	•
6"	_	0.00%	6"	0	2,330.00	0	0.00%
8" (c)	2	0.01%	8"	2	2,330.00	4,660	0.06%
10"	1	0.01%	10"	1	2,330.00	2,330	0.03%
	45 474	100.00%	Totals	15,474	. · -	7,444,950	100.00%
Totals	15,474	100.00%	iotais	. 5, 4, 4			

METER ALLOCATION FACTOR (b)

			Weighted	Percent
Meter	Number	Meter	Dollars	of
Size	of Meters	Cost	of Meters	<u>Total</u>
5/8" x 3/4"	116	\$ 155.00	17,980	0.33%
3/4"	9,055	255.00	2,309,025	42.78%
1"	5,489	315.00	1,729,035	32.03%
1-1/2"	182	525.00	95,550	1.77%
2"	608	1,890.00	1,149,120	21.29%
3"	0	2,545.00	0	0.00%
4"	21	3,645.00	76,545	1.42%
6"	0	6,920.00	0	0.00%
8"	2	6,920.00	13,840	0.26%
10"	1	6,920.00	6,920	0.13%
Totals	15,474	•	5,398,015	100.00%

⁽a) Includes customer and gallon sold annualization.

⁽b) Meter and Service Line cost from Arizona Corporation Commission Memo of February 21, 2008 from Marlin Scott, Jr.. Meter costs based on compound meters. Cost of service line and meter is based on costs allowed for a compound meter installation.

⁽c) 8 Inch customer(s) expected to leave system. See testimony of Greg Sorenson.

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Cost of Service Study Using Commodity / Demand Method
Computation of Monthly Minimums for Demand Charge

Exhibit Rebuttal Schedule G-8 Page 2 Witness: Bourassa

ı			

							5/8" Demand Meter	<u>Charge</u> <u>Ratio</u>	\$ 15.05	\$ 15.05	\$ 15.05	\$ 15.05	\$ 15.05	\$ 15.05	\$ 15.05	\$ 15.05		
No. DEMAND CHARGE:	Return on Rate Base 11.01%	Demand Expenses, from Schedule G-6, Page 1	Totals	Total Revenue Requirement / Demand Component	Equivalent Number of 5/8 Meters billings	Demand Charge for 5/8 Inch Meter		11 Demand Charge Per Equivalent	12 5/8 Inch Meter	3/4 Inch Meter	14 1 Inch Meter	15 1 1/2 Inch Meter	16 2 Inch Meter	3 Inch Meter	18 4 Inch Meter	19 6 Inch Meter	20	

407,940 15.05

Demand Charge

3,412,649 2,725,101

6,137,750

15.05 22.57 37.61 75.23 120.37 240.73 376.14

Exhibit	Rebuttal Schedule G-8	Page 3	Witness: Bourassa
Litchfield Park Service Company - Water Division	Test Year Ended September 30, 2008	ost of Service Study Using Commodity / Demand Method	Imputation Demand Charge and Commodity
Litchfield Park Se	Test Year E	Cost of Service Study	Computation De

Line No. 1 Return on Rate Base 11.01% 2 Less: Miscellaneous Revenues 3 4 Expenses (From Sch. G-6. Page 1) 5 Property taxes	Commodity 66,399	Ol	<u>Service</u> 226,264 136,475	Meter 144,040 342,267	<u>Demand</u> 3,412,649 2,725,101
6 Income Laxes 7 Total Revenue Requirement by function 8 Gallons Sold (in 1,000's)(Zero Gallons in Minimum) (G-7, page 3) 9 Computed Commodity Rate	2,195,082 3,535,889 \$ 0.6208	7 4	362,739	486,308	6,137,750
 Annualized Number of Bills Equivalent Meters and Service Lines Customer Charge (line 18 divided by line 21) 		\$ 23.31	407,940	407,940	407,940
		σ	\$ 68.0	1.19	\$ 15.05
16 Service Line, meter and Dentants Orienge on Lines 20 Lines 27	5/8" Monthly		Demand	II.	
-	Minimum \$ 40.4		<u>Charge</u> 40.44		
20 3/4 Inch Meter 21 1 Inch Meter 22 1 1/2 Inch Meter		2.5 \$	202.09 101.09 202.18		
23 2 Inch Meter 24 3 Inch Meter 25 4 Inch Meter	\$ 40.44 \$ 40.44 \$ 40.44		323.49 646.99 1.010.92		
		80.0	2,021.84		

Exhibit

	Cost of Service Study Using Commodity / Demand Method Computation Demand Charge and Commodity		ì & & \$	Rebuttal Schedule G-8 Page 4 Witness: Bourassa	_
Line No.	Single Tier Rate Design with Some Customer and Demand Costs recovered via the Commodity Rate	£			
7					
ო •	Revenue Requirements Collected via Commodity Charge	- 		, de 1	
4 u		lotal Rev. Red	%	Rev. Red	
י ע	Customer Service and Mater Costs	5 177 384	45% \$		
^		6,137,750			
œ	Commodity Costs	2,195,082	100%		
თ	Total Costs to be Collected via Commodity		₩.	7,286,892	
9	Gallons Sold				
Ξ					
12	Commodity Charge (per 1,000 gallons)		اا د	\$ 2.061	
13					
4	Revenue Requirement Collected				
15					
16					
17	Total Revenue Requirement		•	\$ 13,510,216	
18			ì		
9	Balance to be Recovered through Monthly Minimum		~~ II	\$ 6,223,323	46.06%
20					
2 8	Number of Equivalent 5/8 Inch Meter Billings			407,940	
3 8	Computed Monthly Minimum 5/8 Inch Meter			\$ 15.26	
3 ?			I		
25					
79		.2/8"	Meter	Monthly	
27	Meter Size	Minimum 45.26	Ratio	Minimum 15 20	
87	5/8 Inch Meter	15.20	- 4 - 0		
23	3/4 Inch Meter	15.26	د. د م	22.88	
ส ว		0.50	9 0		
	1 1/2 Inch Meter	15.20	0.0	10.20	
35	2 Inch Mater	15.20	9.0		
3 5	3 inch Meter	15.20	25.0		
, K		15.26	50.0	\$ 762.77	
36	8 Inch Meter	15.26	80.0	-	
37					
38					

Exhibit

	(Col. 2 - Col. 8) Total Revenues minus	Total	Charges	<u>& Costs</u> \$ (30.12)	(29.52)	(28.92)	(28.32)	(27.12)	(25.92)	(24.72)	(23.52)	(22.32)	(21.12)	(19.32)	(15.73)	(12.13)	(8.53)	(4.93)	(1.33)	99'.	16.66	25.66	34.65	43.65	52.64	70.64	88.63	106.62	124.61	142.60
Schedule G-9 Bourassa	8	Total	Charges	& Costs \$ 40.44	41.06	41.68	42.30	42.92	43.54	44.16	44.78	45.40	46.02	46.64	47.89	49.13	50.37	51.61	52.85	55.96	59.06	62.16	65.27	68.37	71.48	77.68	83.89	90.10	96.31	102.52
Exhibit Rebuttal Schedule Page 1 Witness: Bourassa			Commodity	<u>Charges</u> 0	0.621	1.242	1.862	2.483	3.104	3.725	4.346	4.966	5.587	6.208	7.450	8.691	9.933	11.174	12.416	15.520	18.624	21.728	24.832	27.936	31.040	37.248	43.456	49.664	55.872	62.080
n (c er >	<u></u>		Meter	Charges \$ 1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
gin)	<u>(5)</u>	Service	Line	Charges \$ 0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Division 8 d Costs erating Mar	[4]		Customer	<u>Charges</u> \$ 23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31	23.31
y - water to ber 30, 200; to Compute sequired Op	ମ୍ର		Demand	Charges \$ 15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05
ce Compared Septembre Sed Rates eter (With F	[2]			<u>Total</u> \$ 10.32		12.76	13.98	15.80	17.62	19.44	21.26	23.08	24.90	27.32	32.16	37.00	41.84	46.68	51.52	63.62	75.72	87.82	99.95	112.02	124.12	148.32	172.52	196.72	220.92	245.12
Litchfield Park Service Company - water Division Test Year Ended September 30, 2008 Comparison of Proposed Rates to Computed Costs For a 5/8 Inch Residential Meter (With Required Operating Margin)	크	Revenues		Commodity \$	1.22	2.44	3.66	5.48	7.30	9.12	10.94	12.76	14.58	17.00	21.84	26.68	31.52	36.36	41.20	53.30	65.40	77.50	89.60	101.70	113.80	138.00	162.20	186.40	210.60	234.80
Litchfiel T Compar a 5/8 Inch F			Monthly	Minimum \$ 10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32
For	Column Number>		Water	<u>Usage</u>	1.000	2,000	3,000	4,000	5,000	000'9	2,000	8,000	6,000	10,000	12,000	14,000	16,000	18,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000	000'09	70,000	80,000	90,000	100,000
	Column		Line	<u>S</u> ←	- 2	က	4	S	9	7	∞	တ	9	F	12	13	4	15	16	17	18	19	20	21	52	23	24	25	56	27

Exhibit

	(Col. 2 - Col. 8)	Revenues	minus Total	Charges			(33.14)	(32.54)	(31.34)	(30.14)	(28.94)	(27.74)	(26.55)	(25.35)	(23.55)	(19.95)	(16.35)	(12.75)	(9.15)	(2.56)	3.44	12.44	21.43	30.43	39.42	48.42	66.41	84.40	102.40	120.39	138.38
Schedule G-9 Bourassa	(8)		Total	Charges	& Costs	61.28	61.90	62.52	63.14	63.76	64.38	65.00	65.62	66.24	98.99	68.10	69.35	70.59	71.83	73.07	76.18	79.28	82.38	85.49	88.59	91.70	97.90	104.11	110.32	116.53	122.74
Rebuttal Schedule G-9 Page 2 Witness: Bourassa	EJ .			Commodity	Charges	0.621	1.242	1.862	2.483	3.104	3.725	4.346	4.966	5.587	6.208	7.450	8.691	9.933	11.174	12.416	15.520	18.624	21.728	24.832	27.936	31.040	37.248	43.456	49.664	55.872	62.080
117.17.>	<u></u>			Meter	Charges 4 70	67.1	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
ırgin)	(5)		Service	Line	Charges 4 33		1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
Division 38 ed Costs perating Ma	<u></u>			Customer	Charges		34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96	34.96
to Compute Required O	ମ୍ର			Demand	Charges \$ 22,57		22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57	22.57
ded Septembe osed Rates to leter (With Re	(5)				Total		28.76	29.98	31.80	33.62	35.44	37.26	39.08	40.90	43.32	48.16	53.00	57.84	62.68	67.52	79.62	91.72	103.82	115.92	128.02	140.12	164.32	188.52	212.72	236.92	261.12
Comparison of Proposed Rates to Computer Control Comparison of Proposed Rates to Computed Costs For a 3/4 Inch Residential Meter (With Required Operating Margin)	日		Revenues		Commodity	- 122	2.44	3.66	5.48	7.30	9.12	10.94	12.76	14.58	17.00	21.84	26.68	31.52	36.36	41.20	53.30	65.40	77.50	89.60	101.70	113.80	138.00	162.20	186.40	210.60	234.80
Comparis r a 3/4 Inch Re				Monthly		26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32	26.32
Fo	Column Number>			Water	Usage	100	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	12,000	14,000	16,000	18,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000	60,000	70,000	80,000	90,000	100,000
	Column			Line	<u>Ş</u>	- 0	1 ო	4	ß	9	7	ω	6	9	7	12	13	14	15	16	17	18	19	20	21	22	23	24	52	56	27

Exhibit

	(Col. 2 - Col. 8) Total Revenues minus	Total	Charges	& Costs (57.23)		(54.83)	(53.63)	(52.44)	(51.24)	(50.04)	(48.84)	(47.64)	(46.44)	(45.24)	(42.84)	(40.44)	(38.04)	(32.65)	(33.25)	(24.25)	(15.26)	(6.26)	2.74	11.73	20.73	38.72	56.71	74.70	92.70	110.69
dule G-9 assa	(<u>8</u>)	Total	Charges	& Costs	101.71	102.33	102.95	103.58	104.20	104.82	105.44	106.06	106.68	107.30	108.54	109.78	111.02	112.27	113.51	116.61	119.72	122.82	125.92	129.03	132.13	138.34	144.55	150.76	156.96	163.17
Exhibit Rebuttal Schedule G-9 Page 3 Witness: Bourassa	8		Commodity	<u>Charges</u>	0.621	1.242	1.862	2.483	3.104	3.725	4.346	4.966	5.587	6.208	7.450	8.691	9.933	11.174	12.416	15.520	18.624	21.728	24.832	27.936	31.040	37.248	43.456	49.664	55.872	62.080
m & c >	9		Meter	Charges	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
(nig	<u>(5)</u>	Service	Line	Charges		2.22	2.22	2.22	2.22	2.22	2.22	2.22		2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
Division 8 ed Costs erating Marc	[4]		Customer	Charges		58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27	58.27
ny - Water I ber 30, 200 to Compute equired Ope	ପ୍ର		Demand	Charges	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61	37.61
ice Compai led Septem osed Rates iter (With Ra	(2)			Total		47.50	49.32	51.14	52.96	54.78	56.60	58.42	60.24	62.06	65.70	69.34	72.98	76.62	80.26	92.36	104.46	116.56	128.66	140.76	152.86	177.06	201.26	225.46	249.66	273.86
Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Comparison of Proposed Rates to Computed Costs I Inch Residential Meter (With Required Operating Margin)	ਰ	Revenues		Commodity	1.82	3.64	5.46	7.28	9.10	10.92	12.74	14.56	16.38	18.20	21.84	25.48	29.12	32.76	36.40	48.50	09.09	72.70	84.80	96.90	109.00	133.20	157.40	181.60	205.80	230.00
Litchfielo Te Comparii For a 1 Inch Re			Monthly	Minimum \$ 43.86		43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86	43.86
F ₀	Column Number->		Water	Usage	1,000	2,000	3,000	4,000	5,000	9'000	2,000	8,000	9,000	10,000	12,000	14,000	16,000	18,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000	900'09	70,000	80'000	90,000	100,000
	Column		Line	<u>§</u> ←	- 2	က	4	വ	9	7	ω	6	9	=	12	13	14	15	16	17	48	19	20	21	22	23	24	52	56	27

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008

Exhibit Rebuttal Schedule H-1 Page 1 Witness: Bourassa

Meter			Present		Proposed		Dollar	Percent	Percent of Present Water	Percent of Proposed Water
Size	Class		Revenues	-	Revenues		Change	Change	Revenues	Revenues
8 Inch	Residential	69	7,929	₩.	12,382	₽	4,453	56.16%	0.12%	0.09%
3/4 Inch	Residential		2,023,567		4,687,168		2,663,601	131.63%	30.10%	34.76%
1 Inch	Residential		1,986,898		4,526,700		2,539,802	127.83%	29.56%	33.57%
1.5 Inch	Residential		54,252		96,290		42,038	77.49%	0.81%	0.71%
2 Inch	Residential		159,078		234,227		75,149	47.24%	2.37%	1.74%
4 Inch	Residential		19,356		32,030		12,675	65.48%	0.29%	0.24%
	Subtotal		4,251,079		9,588,796		5,337,717	125.56%	63.24%	71.11%
8 Inch	Commercial	49	24,344	€9	40,954	69	16,610	68.23%	0.36%	0.30%
3/4 Inch	Commercial		12,320		30,065		17,745	144.04%	0.18%	0.22%
1 Inch	Commercial		31,023		71,401		40.379	130.16%	0.46%	0.53%
1.5 Inch	Commercial		64,158		113,680		49,522	77.19%	0.95%	0.84%
2 Inch	Commercial		394,253		586,940		192,688	48.87%	5.86%	4.35%
4 Inch	Commercial		64,990		108,554		43,564	67.03%	0.97%	0.81%
10 Inch	Commercial		17,579		31,839		14,260	81.12%	0.26%	0.24%
	Subtotal	⇔	608,665	eσ	983,433	₩.	374,768	61.57%	9.05%	7.29%
5/8 Inch	Irrigation	69	1,076	↔	1,879		803	74.56%	0.02%	0.01%
3/4 Inch	Irrigation	69	36,970	(/)	82,378		45,407	122.82%	0.55%	0.61%
1 Inch	Irrigation		151,173		310,186		159,013	105.19%	2.25%	2.30%
1.5 Inch	Irrigation		148,413		262,651		114,238	76.97%		1.95%
2 Inch	Irrigation		908,626		1,504,279		595,653	65.56%	•	11.16%
4 Inch	Irrigation		104,340		180,169		75,829	72.67%		1.34%
	Subtotal		1,350,600		2,341,542		990,943	73.37%	20.09%	17.36%
	Hydrant		108,568		114,936	€9	6,369	5.87%	1.61%	0.85%
	Bulk Water		403,707		455,597		51,891	12.85%	6.01%	3.38%
otal Revenue	Total Revenues Before Annualization	s.	6.722.618	69	6 722 618 \$ 13 484 305	65	6.761.687	100 58%	100 00%	100 00%

Line | No. 1 |

Size 5/8 Inch 3/4 Inch

1.5 Inch 2 Inch 4 Inch

1 Inch

326 C-2, pg. 5.6 (107) C-2, pg. 5.7 (1,011) C-2, pg. 5.8 730 C-2, pg. 5.9 8,989 C-2, pg. 5.10 6,518 C-2, pg. 5.11 C-2, pg. 5.12 (53) C-2, pg. 5.13 1,104 C-2, pg. 5.14 4,728 C-2, pg. 5.15 (8,435) C-2, pg. 5.16 596 C-2, pg. 5.17 (4,312) C-2, pg 5.1 (4,312) C-2, pg. 5.2 (3,576) C-2, pg. 5.3 (696) C-2, pg. 5.4 6,349 C-2, pg. 5.5 (2,656)Additional Gallons to be Pumped (2,262)15,444 Rebuttal Schedule H-1 Witness: Bourassa (418) (167) (12) (12) (3) 35 67 (43) (484) (17) (81) 12 145 19 20 Additional Bills Page 2 Change 0.00% 0.00% 0.00% 0.00% 34.41% 0.00% 100.41% 73.10% 0.00% 0.00% 61.71% 0.00% 0.00% 71.87% 37.29% 59.67% 0.00% 0.00% 0.00% 5.93% 0.00% 45.62% -101.01% 896.40% 23.80% Percent (36) (10,282) (7,050) (884) 5,106 -(102) 1,897 5,852 (8,518) (871) (27,958)(13,146)815 (401) (3,062) 920 7,359 6,604 14,059) Change Revenue Annualization With Annualized Revenues to Year End Number of Customers 26,015 \$ Revenues (100) (18,503) (13,833) (2,119) 19,943 3,786 13,859 (21,985) Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 (14,613) 2,136 (652) (5,397) 2,201 27,090 17,673 (4,530)2,108 43,050 Proposed (64) \$ (1,467) \$ 1,889 8,006 (13,467) Revenue Summary (8,221) (6,783) (1,235) 14,837 (88) (3,660)1,321 (250) (2,335) 1,280 19,732 11,068 1,990 27,680 30,816 Revenues Present ₩. 8 Commercial Commercial Commercial Class Residential Residential Residential Residential Commercial Commercial Commercial Commercial Irrigation Irrigation Irrigation Irrigation Irrigation Subtotal **Bulk Water** Residential Irrigation Residential Subtotal Hydrant Subtotal Total Revenue Annualization

1 Inch 1.5 Inch 2 Inch 4 Inch 10 Inch

| No. | No.

5/8 Inch 3/4 Inch

5/8 Inch 3/4 Inch 1 Inch 1.5 Inch 2 Inch 4 Inch

Litchfield Park Service Company - Water Division
Test Year Ended September 30, 2008
Revenue Summary
With Annualized Revenues to Year End Number of Customers

Exhibit Schedule H-1 Page 3 Witness: Bourassa

								Percent	Percent
ne								ō	ţ
óİ								Present	Proposed
		Present		Proposed				Water	Water
		Sevenues		Revenues				Revenues	Revenues
3 Subtotal Metered Revenues	€9	\$ 6,722,618 \$ 13,	69	13,484,305	↔	6,761,687		100.00%	100.00%
4 Subtotal Revenue Annualization		27,680		26,015				0.41%	0.19%
5 Total Metered Revenues	es.	6,750,298	€9	6,750,298 \$ 13,510,320 \$	€>		100.14%		
7 Misc. Revenues	69	127,522 \$	69	127,522		•	0.00%	1.90%	0.95%
8 Reconciling Amount to GL		890		(104)		(994)	-111.69%	0.01%	0.00%
3 Total Water Revenues	₩	6,878,710	\$	6,878,710 \$ 13,637,737 \$	€9	6,759,028	98.26%	%00'0	0.00%

| No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No.

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Customer Summary

Exhibit Rebuttal Schedule H-2 Page 1 Witness: Bourassa

			۰,	9	ø	vo.	y.	۰ و		vo.	yo.	9	9	%	%	%		≫	%	%	%	×2°	٧.		%	%	
	<u>Percent</u>	Amount	57.36%	126.39%	122.89%	71.40%	35.28%	57.69%		73.519	146.09%	125.65%	72.78%	38.80%	61.89%	72.34%		69.88	118.70%	99.16%	74.789	63.92%	70.649		5.87	12.86%	
	Proposed Increase Dollar Percel	Amount	6.20	23.56	38.79	73.16	46.18	310.12		8.49	24.27	38.41	84.37	54.81	397.96	1,059.80		20.41	30.96	57.75	106.90	207.14	767.64		23.50	2,162.58	
	Bill Proposed	Rates	17.00	42.20	70.35	175.63	177.08	847.71		20.04	40.88	68.98	200.29	196.06	1,040.96	2,524.73		49.63	57.04	115.99	249.86	531.18	1,854.26		424.12	18,983.23	
	9 _		₩							69								€9							↔		
	Average Bill Present Pro	Rates	10.80	18.64	31.56	102.47	130.90	537.59		11.55	16.61	30.57	115.92	141.25	643.00	1,464.93		29.21	26.08	58.24	142.96	324.04	1,086.62		400.62	16,820.65	
			69							63	↔							↔							ω		
	Average	Consumption	4,661	9,537	14,556	57,667	58,065	308,972		5,342	8,000	13,804	67,854	62,909	388,827	861,500		18,722	15,176	34,762	88,340	204,389	724,899		120,247	12,574,167	
(a) Average Number of	<u>Customers</u> at	9/30/2008	99	8,919	5,209	4	101	က	14,333	148	25	83	46	232	80	-	575	8	115	215	98	234	80	661	23	2	15,594
		Meter Size, Class	Residential	Residential	Residential	Residential	Residential	Residential	Subtotal	Commercial	Subtotal	Irrigation	Irrigation	Irrígation	Irrigation	Irrigation	Irrigation	Subtotal	Hydrant	Bulk Water	Total						
			5/8 Inch	3/4 Inch	1 Inch	1.5 Inch	2 Inch	4 Inch		5/8 Inch	3/4 Inch	1 Inch	1.5 Inch	2 Inch	4 Inch	10 Inch		5/8 Inch	3/4 Inch	1 Inch	1.5 Inch	2 Inch	4 Inch				

⁽a) Average number of customers of less than one (1), indicates that less than 12 bills were issued during the year.

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Customer Summary

Exhibit Rebuttal Schedule H-2 Page 2 Witness: Bourassa

⁽a) Average number of customers of less than one (1), indicates that less than 12 bills were issued during the year. 33 33

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Present and Proposed Rates

Exhibit Rebuttal Schedule H-3 Page 1 Witness: Bourassa

Line	· · · · · · · · · · · · · · · · · · ·	Present	Proposed	į	Percent
<u></u>	Montniy Usage Charge for: Meter Size (All Classes):	Kates	Kates	Change	Change
7	5/8 Inch	\$ 6.75	\$ 10.32 \$	3.57	52.89%
7	3/4 Inch	8.30		18.02	217.06%
က	1 Inch	14.60	43.86	29.26	200.41%
4	1 1/2 Inch	28.60		25.48	89.09%
ა	2 Inch	56.50		10.06	17.81%
9	3 Inch	L		133.12	
7	4 Inch	132.00	208.00	26.00	24.58%
æ	6 Inch	LN		416.00	
თ	8 Inch	225.00		274.20	121.87%
10	10 Inch	330.00		626.80	189.94%
:	12 Inch	450.00	1,248.00	798.00	177.33%
<u> </u>	Construction - Hydrants	\$ 100.00	hy mater size		
4					
. 5	Gallons In Minimum (All Meter Sizes and Classes)	٠	•		
16					
11			(Per 1,000 gallons)	llons)	
18	Commodity Rates		Present	Proposed	
19	(Residential, Commercial, Industrial)	Block	Rate	Rate	
2 6					
- 23	All Metel Sizes (except Constituction)	o garons to 3,000 garions Over 5,000 gallons	\$ 0.87 1.32	W. AN	
23		•			
54		:			
52	5/8 Inch and 3/4 Inch Meter - Residential	0 galions to 3,000 gallons 3,001 gallons to 0,000 gallons	NA E	1.22	
27		over 9,000 gallons	N. VIN	2.42	
28					
30	5/8 Inch and 3/4 Inch Meter Com., Irr.	0 gailons to 10,000 gallons over 10,000 gallons	AND SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	1.82	
31		•			
33	1 Inch Meter - All Classes except Constr.	0 gallons to 20,000 gallons over 20,000 gallons	NA SES	1.82 2.42	
8					
36	1.5 Inch Meter - All Classes except Constr.	0 gallons to 30,000 gallons over 30,000 gallons	S AND S	1.82 2.42	
37	3 1 :				
ဗ္ဗ	NT = No Tariff				

Exhibit

Test Year Ended September Test Year Ended September Present and Proposed F	Test Year Ended September 30, 2008 Present and Proposed Rates			Rebuttal Page 2 Witness:	Rebuttal Schedule H-3 Page 2 Witness: Bourassa	
Commodity Rates (Residential, Commercial, Industrial)	Block	(Per 1,000 gallons) Present Propo	gallons) Proposed <u>Rate</u>			
2 Inch Meter - All Classes except Constr.	0 gailons to 50,000 gailons over 50,000 gallons	NA FEE	\$ 1.82 \$ 2.42	22.23		
3 Inch Meter -All Classes except Constr.	0 gallons to 120,000 gallons over 120,000 gallons	NA.	\$ 1.82 \$ 2.42	2 2		
4 Inch Meter- All Classes except Constr.	0 gallons to 180,000 gallons over 180,000 gallons	NA T	\$ 1.82 \$ 2.42	1.82 2.42		
6 Inch Meter - All Classes except Constr.	0 gallons to 360,000 gallons over 360,000 gallons	NA **	s s - 1.2.	1.82 2.42		
8 Inch Meter - All Classes except Constr.	0 gallons to 670,000 gallons over 670,000 gallons	WA-4	. 2	1.82 2.42		
10 Inch Meter - All Classes except Constr.	0 gallons to 940,000 gallons over 940,000 gallons	ANN	8 8 1 2.2	1.82 2.42		
12 Inch Meter - All Classes except Constr.	0 gallons to 1,660,000 gallons over 1,660,000 gallons	NA	8 8 7 2 7	1.82 2.42		
Bulk Water	All Gallons	N/A TO	÷ ₩	1.47		
Construction- Hydrants	All gallons	\$ 2.50	\$. 2.	2.42 \$	(0.080)	-3.20%

Changes in Representative Rate Schedules Test Year Ended September 30, 2008

Exhibit Rebuttal Schedule H-3 Page 3 Witness: Bourassa

Line		Р	resent	Pro	posed
No.	Other Service Charges	<u> </u>	Rates	<u>F</u>	<u>Rates</u>
1	Establishment (Regular Hours) per Rule R14-2-403D (a)	\$	20.00	\$	20.00
2	Establishment (After Hours) per Rule R14-2-403D (a)	\$	40.00	\$	40.00
3	Re-Establishment of Service per Rule R14-2-403D (a)		(b)		(b)
4	Reconnection (Regular Hours) per Rule R14-2-403D (a)	\$	50.00	\$	
5	Reconnection (After Hours) per Rule R14-2-403D (a)	\$	65.00	\$	65.00
6	Meter Test (if correct) per Rule R14-2-408F (c)	\$	25.00	\$	25.00
7	Meter Reread per Rule R14-2-408C (if correct)	\$	5.00	\$	5.00
8	NSF Check per Rule R14-2-409F (a)	\$	20.00	-	20.00
9	Deferred Payment, Per Month	1	.50%	1	.50%
10	Late Charge		(d)		(d)
11	Service Calls - Per Hour/After Hours(e)	\$	40.00	\$	40.00
12	Deposit Requirements		(f)		(f)
13	Deposit Interest	_	3.50%	-	.50%
14	Meter and Service lines		see H-3		-
15	Main Extension Tariff	a	t Cost	a	t Cost
16					

17 18

- 19 (a) Service charges for customers taking both water and sewer service are not duplicative.
- 20 (b) Minimum charge times number of full months off the system. per Rule R14-2-403(D).
- 21 (c) \$25 plus cost of test
- 22 (d) Greater of \$5.00 or 1.5% of unpaid balance.
- 23 (e) No charge for service calls during normal working hours.
- 24 (f) Per ACC Rules R14-2-403(B) Residential two times the average bill.
 - Commercial two and one-half times the average bill.

25 26 27

29

28 IN ADDITION TO THE COLLECTION OF REGULAR RATES, THE UTILITY WILL COLLECT FROM ITS CUSTOMERS A PROPORTIONATE SHARE OF ANY PRIVILEGE, SALES, USE, AND FRANCHISE TAX. PER COMMISSION RULE 14-2-409D(5).

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Meter and Service Line Charges

Exhibit Rebuttal Schedule H-3 Page 4 Witness: Bourassa

							VVIII1033. DOL
Line							
<u>No.</u>							
1							
2	Refundable Meter a	nd Service Line	<u>Charges</u>				
3							
4			Present			Proposed	
5		Present	Meter		Proposed	Meter	
6		Service	Install-	Total	Service	Install-	Total
7		Line	ation	Present	Line	ation	Proposed
8		<u>Charge</u>	Charge	<u>Charge</u>	<u>Charge</u>	<u>Charge</u>	<u>Charge</u>
9	5/8 x 3/4 Inch			\$ 225.00	\$ 385.00	\$ 135.00	\$ 520.00
10	3/4 Inch			225.00	385.00	215.00	600.00
11	1 Inch			300.00	435.00	255.00	690.00
12	1 1/2 Inch			500.00	470.00	465.00	935.00
13	2 Inch			675.00			
14	Over 2 Inch			At Cost			
15	2 Inch / Turbine			NT	630.00	965.00	1,595.00
16	2 Inch / Compound			NT NT	630.00	1,690.00	2,320.00
17	3 Inch / Turbine			NT	805.00	1,470.00	2,275.00
18	3 Inch / Compound			NT	845.00	2,265.00	3,110.00
19	4 Inch / Turbine			NT	1,170.00	2,350.00	3,520.00
20	4 Inch / Compound			NT	1,230.00	3,245.00	4,475.00
21	6 Inch / Turbine			NT	1,730.00	4,545.00	6,275.00
22	6 Inch / Compound			NT	1,770.00	6,280.00	8,050.00
23	8 Inch & Larger			NT	At Cost	At Cost	At Cost
24	o mon a cargo						
25	Constuction Water			\$ 1,500			\$ 1,500
26	Constaction value			* ''			
27	N/T = No Tariff						
28	14/1 - 140 1 41111						
29							
30							
31							
31							

BOURASSA REBUTTAL WASTEWATER SCHEDULES (Rate Base – Phase I)

Test Year Ended September 30, 2008 Computation of Increase in Gross Revenue Requirements As Adjusted Exhibit Rebuttal Schedule A-1 Page 1 Witness: Bourassa

Line								
<u>No.</u> 1	Fair Value Rate Base					\$	28,034,885	
2 3	Adjusted Operating Income						150,940	
4 5	Current Rate of Return						0.54%	
6 7	Required Operating Income					\$	3,083,837	
8 9	Required Rate of Return on Fair Value Rate Base)					11.00%	
10 11	Operating Income Deficiency					\$	2,932,897	
12	•					Ť	1.6286	
13 14	Gross Revenue Conversion Factor					•		
15 16	Increase in Gross Revenue Revenue Requiremen	nt				\$	4,776,618	
17	Test Year Revenues					\$	6,356,374	
18	Increase in Gross Revenue Revenue Requirement	nt				\$	4,776,618	
19	Proposed Revenue Requirement					\$	11,132,993	
20	% Increase						75.15%	
21			D		Dunmanad		Deller	Doroont
22	Customer		Present		Proposed		Dollar	Percent
23	Classification	•	Rates	•	Rates	\$	Increase	<u>Increase</u> 77.24%
24	Residential	\$	4,647,120 266,016	\$	8,236,679 471,494	Φ	3,589,559 205,478	77.24%
25	Residential HOA		518,888		919.818		400,931	77.27%
26	Multi-unit Housing		84,318		149,463		65,145	77.26%
27	Small Commercial		04,510		170,700		00,140	,,.2070

<u>Rates</u>		Rates		<u>Increase</u>	<u>Increase</u>
\$ 4,647,120	\$	8,236,679	\$	3,589,559	77.24%
266,016		471,494		205,478	77.24%
518,888		919,818		400,931	77.27%
84,318		149,463		65,145	77.26%
256,547		454,904		198,357	77.32%
222,936		395,322		172,386	77.33%
115,929		205,502		89,573	77.27%
76,320		135,277		58,957	77.25%
92,268		92,268		_	0.00%
\$ 6,280,340	\$	11,060,726	\$	4,780,386	76.12%
\$ (27,512)	\$	(28,724)	\$	(1,213)	4.41%
99,755		99,755		-	0.00%
3,791		1,236		(2,555)	-67.40%
\$ 6,356,375	\$	11,132,992	\$	4,776,618	75.15%
\$	\$ 4,647,120 266,016 518,888 84,318 256,547 222,936 115,929 76,320 92,268 \$ 6,280,340 \$ (27,512) 99,755 3,791	\$ 4,647,120 \$ 266,016 518,888 84,318 256,547 222,936 115,929 76,320 92,268 \$ 6,280,340 \$ \$ (27,512) \$ 99,755 3,791	\$ 4,647,120 \$ 8,236,679 266,016 471,494 518,888 919,818 84,318 149,463 256,547 454,904 222,936 395,322 115,929 205,502 76,320 135,277 92,268 92,268 \$ 6,280,340 \$ 11,060,726 \$ (27,512) \$ (28,724) 99,755 99,755 3,791 1,236	\$ 4,647,120 \$ 8,236,679 \$ 266,016 471,494 518,888 919,818 84,318 149,463 256,547 454,904 222,936 395,322 115,929 205,502 76,320 135,277 92,268 92,268 \$ 6,280,340 \$ 11,060,726 \$ \$ (27,512) \$ (28,724) \$ 99,755 3,791 1,236	\$ 4,647,120 \$ 8,236,679 \$ 3,589,559 266,016 471,494 205,478 518,888 919,818 400,931 84,318 149,463 65,145 256,547 454,904 198,357 222,936 395,322 172,386 115,929 205,502 89,573 76,320 135,277 58,957 92,268 92,268 - \$ 6,280,340 \$ 11,060,726 \$ 4,780,386 \$ (27,512) \$ (28,724) \$ (1,213) 99,755 99,755 - 3,791 1,236 (2,555)

SUPPORTING SCHEDULES:

44 SUPPORTIN
45 Rebuttal B-1
46 Rebuttal C-1
47 Rebuttal C-3
48 Rebuttal H-1

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Summary of Rate Base

Exhibit Rebuttal Schedule B-1 Page 1 Witness: Bourassa

Line <u>No.</u> 1		riginal Cost Rate base		Fair Value Rate Base
2	Gross Utility Plant in Service	\$ 59,833,807	\$	59,833,807
3	Less: Accumulated Depreciation	 7,902,675		7,902,675
4 5 6	Net Utility Plant in Service	\$ 51,931,132	\$	51,931,132
7	Less:			
8	Advances in Aid of			0.000.550
9	Construction	6,989,559		6,989,559
10	Contributions in Aid of			40.040.700
11	Construction	18,643,786		18,643,786
12	Accumulated Amortization of CIAC	(2,072,117)		(2,072,117)
13				
14	Customer Meter Deposits	0		0
15	Deferred Income Taxes & Credits	335,020		335,020
16		-		-
17				
18				
19	Plus:			
20	Unamortized Finance			
21	Charges	-		-
22	Deferred Finance Charges	-		-
23	Allowance for Working Capital	-		-
24				
25	_	 00.004.005		20 024 005
26	Total Rate Base	\$ 28,034,885	\$	28,034,885
27				
28				
29				
30	SUPPORTING SCHEDULES:			
31	Rebuttal B-2			
32	Rebuttal B-5			
33				
34				
35				

Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments

Rebuttal B-2, page 2

Exhibit Rebuttal Schedule B-2 Page 1 Witness: Bourassa

Rebuttal B-1

Line <u>No.</u>			Actual at End of <u>Test Year</u>	Proforma Adjustments <u>Amount</u>		Adjusted at end of <u>Test Year</u>
1	Gross Utility Plant in Service	\$	60,394,260	(560,453)	\$	59,833,807
2 3	Plant in Service	Ψ	00,394,200	(000,400)	•	00,000,000
4	Less:					
5	Accumulated					
6	Depreciation		8,475,991	(573,316)		7,902,675
7						
8						
9	Net Utility Plant	_	= 4 0 4 0 000		•	E4 024 422
10	in Service	\$	51,918,269		\$	51,931,132
11						
12	Less:					
13	Advances in Aid of		7,006,208	(16,649)		6,989,559
14	Construction		7,006,206	(10,049)		0,000,000
15	O - marth ratio and the Aird of					
16	Contributions in Aid of		18,737,132	(93,346)		18,643,786
17	Construction (CIAC)		10,737,132	(00,010)		10,0 10,1 00
18	Accumulated Amortization of CIAC		(2,072,117)	_		(2,072,117)
19	Accumulated Amortization of CIAC		(2,072,117)			(=,=,=,,,
20 21	Customer Meter Deposits		68,685	(68,685)		0
22	Deferred Income Taxes		15,987	319,033		335,020
23	Deletted moothe raxes			, -		•
24						
25	Plus:					
26	Unamortized Finance					
27	Charges		-	-		-
28	Deferred Finance Chgs		134,528	(134,528)		-
29	Allowance for Working Capital		-	-		-
30	,					
31	Total	\$	28,296,903		<u>\$</u>	28,034,885
32						
33						
34						
35	SUPPORTING SCHEDULES:					CHEDULES:
	D 1 #-1 D 0 2			Rel	buttal B	<u>.</u> 1

Division		nts
Litchfield Park Service Company - Wastewater Divisior	Test Year Ended September 30, 2008	Original Cost Rate Base Proforma Adjustment

	Litchfield Paral Drigins Actual at End of End of	ark Service Co	Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments ctual at Accum.	ewater Div 2008 Jjustments <u>Profe</u>	er Division lents Proforma Adjustments 4	nts 5	6 Debt	Exhibit Rebuttal 1 Page 2 Witness:	Exhibit Rebuttal Schedule B-2 Page 2 Witness: Bourassa Adjusted at end of
€9	60,394,260	(560,453)		5				€9	59,833,807
	8,475,991		(573,316)						7,902,675
€9	51,918,269	\$ (560,453) \$	\$ 573,316 \$,	↔	Уэ	ω	↔	51,931,132
	7,006,208				(16,649)				6,989,559
	18,737,132				(93,346)				18,643,786
	(2,072,117)								(2,072,117)
	68,685 15,987			319,033		(68,685)			335,020
	134,528						(134,528)		
မှာ	28,296,903	\$ (560,453)	\$ 573,316 \$	\$ (319,033)	\$ 109,995	\$ 68,685	(134,528)	σ	28,034,885
						RECAP SCHEDULES: B-1	<u>ULES:</u>		

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 1

Exhibit
Rebuttal Schedule B-2
Page 3
Witness: Bourassa

를 의 -	Plant-in-Service	acivies.			∢ I	ωl	Adjustments C	οl	ші	
. 4			Adjusted			Odor		Remove	Intentionally	Adiustod
ო	Acct.		Orginal		Plant	Control	Capitalized	Office Rent	I off	Original
4 u	N 2	Description	Cost	Ret	Retirements	Unit	Expenses	Rent	Blank	Cost
ာဖ	353	Land	1.783.426							1 783 436
7	354	Structures & Improvements	19,319,421		(388,834)		3.725	7 072		1,703,420
œ	355	Power Generation	543,670				5,004			548,674
თ	360	Collection Sewer Forced	1,161,105							1 161 105
9	361	Collection Sewers Gravity	23,113,391		(18,730)					23.094.661
7	362	Special Collecting Structures	•							
12	363	Customer Services								•
13	364	Flow Measuring Devices	47,019							47.019
4	366	Reuse Services	3,789,468							3.789,468
15	367	Reuse Meters and Installation	52,331							52.331
16	370	Receiving Wells	860,393							860.393
17	371	Pumping Equipment	1,858,411		(103,992)		6,394			1 760 813
18	374	Reuse Distribution Reservoirs	62,825				=			62,825
19	375	Reuse Trans, and Dist. System	414,315							414.315
20	380	Treatment & Disposal Equip.	5,469,478			(38,250)				5.431.228
21	381	Plant Sewers	47,788							47 788
55	382	Outfall Sewer Lines	343,681							343.681
23	389	Other Sewer Plant & Equip.	644,609		(43,421)		10,579			611,767
24	330		198,772							198,772
52	390.1	_	1							1
56	391	Transportation Equipment	26,078							26 078
27	392	Stores Equipment	896'8							8 968
28	393	Tools, Shop And Garage Equip	56,167							56 167
58	394	Laboratory Equip	173,948							173.948
9	396	Communication Equip	418,996							418.996
3	398	Other Tangible Plant	•							
32			•							,
33			•							•
34			- 1							•
35		TOTALS	\$ 60,394,260	₩	(554,977) \$	(38,250) \$	25,702	\$ 7,072	₩	\$ 59,833,807
37	Adinste	Adiusted Plant-in-Service per Direct								
38	orenin i								•	\$ 60,394,260
36	Increase	Increase (decrease) in Plant-in-Service								\$ (560,453)
4									•	
4 ;	Adjustn	Adjustment to Plant-in-Service							"	\$ (560,453)
4 4	SUPPO	SUPPORTING SCHEDULES							•	
4 4	Rebutta	Rebuttal B-2, pages 3.1-3.3								
?	ובחחוום	מו ים די המקפא הידים וג								

Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 1- A

Exhibit Rebuttal Schedule B-2 Page 3.1 Witness: Bourassa

Line <u>No.</u>			
1	Plant Retirements		
2			
3	354 - Structures and Improvements	\$	(388,834)
4	361 - Collection Sewer - Gravity		(18,730)
5	371 - Pumping Equipment		(103,992)
6	389 - Other Plant and Miscellaneous Equipment		(43,421)
7			
8	Increase (Decrease) in Plant-in-Service	\$_	(554,977)
9			
10			
11	For related AIAC and CIAC see Rebuttal Schedule B-2, page 6		
12			
13			
14			
15			
16	See Staff Adjustment 1 Schedule JMM-WW5 (from Exhibit MSJ Table G-1)		

Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 1- B Exhibit Rebuttal Schedule B-2 Page 3.2 Witness: Bourassa

Line <u>No.</u> 1 2	Transfer of Odor Control Unit to Black Mountain Sewer Company ("BMSC")		
3	Original Cost of Odor Control Unit	\$	(38,250)
4			
5			
6 7			
8	Increase (Decrease) in Plant-in-Service	\$	(38,250)
9	more data (Data data) in Francisco	-`	(00)=00)
10			
11			
12			
13			
14			
15 16	See Staff Adjustment 2 Schedule JMM-WW6		
17	(Actual cost is \$38,250 per updated documentation not \$38,625)		
18	(Actual Cost is \$50,250 per appared documentation not \$50,025)		

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 1- C

See testimony

Exhibit Rebuttal Schedule B-2 Page 3.3 Witness: Bourassa

Line <u>No.</u>				
1	Capitalized Expenses			
2				
3	354 - Structures and Improvements - Dean Fence and Gate (fence)		\$	3,725
4	355 - Power Generation Equipment - Loftin Equipment Co. (generator duct)			5,004
5	371 - Pumping Equipment - Precision Electric (install rebuilt pump)	\$ 1,530		
6	371 - Pumping Equipment - Precision Electric (new reinforced strainer baskets)	 4,864		
7	Total 371 - Pumping Equipment			6,394
8	389 - Other Plant and Misc. Equip Keogh Engineering (odor monitor site plant and pole mnt)	\$ 1,450		
9	389 - Other Plant and Misc. Equip Keogh Engineering (odor monitor legal descr. & map)	550		
10	389 - Other Plant and Misc. Equip Keogh Engineering (filter system repair)	8,054		
11	389 - Other Plant and Misc. Equip Keogh Engineering (work on UV system)	 525		
12	Total 389 - Other Plant and Misc. Equip.			10,579
13				
14	Increase (Decrease) in Plant-in-Service		<u> \$ </u>	25,702
15				
16				
17				

Atal Rate Rate Plant 2000 2001 <t< th=""><th>2001 2001 Salvage Plant 2001 A/D Only Balance Deprec.</th><th></th><th></th><th></th><th></th><th></th><th></th><th>6,954,989 156,258</th><th></th><th></th><th></th><th></th><th></th><th>•</th><th></th><th>•</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>4,460,750 112,411</th><th></th><th></th></t<>	2001 2001 Salvage Plant 2001 A/D Only Balance Deprec.							6,954,989 156,258						•		•													4,460,750 112,411		
Ratie Ratie Plant 2000 2001 2001 Ratie Ather Ather Ather Ather Ather Ather Accurn. Plant Plant Plant Nov-02 Nov-02 1221/2000 Dept. Additions Additions <th></th> <th></th> <th>4</th> <th>1,742,400</th> <th>•</th> <th>•</th> <th>•</th> <th>1,508,523</th> <th>1,508,523)</th> <th>•</th> <th>•</th> <th>472,540</th> <th>•</th> <th></th> <th></th> <th>ı</th> <th>1</th> <th>•</th> <th>•</th> <th>•</th> <th>•</th> <th>1,769</th> <th>1</th> <th>,</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>,</th> <th>,</th> <th>,</th>			4	1,742,400	•	•	•	1,508,523	1,508,523)	•	•	472,540	•			ı	1	•	•	•	•	1,769	1	,	1	1	1	1	,	,	,
Deprec. Deprec. Deprec. Plant 2000 2 Rate Rate After At Accum. Ac	_			1,742,400				1,508,523	(1,508,523)			-										o,									
Deprec. Rate Rate Plant 200 Before After At Act. Before After At Act. Nov-02 12/31/2000 Deprec. n 0.00% 0.00% - n 2.52% 3.33% - 2.52% 3.00% 21,372 2.52% 2.00% 55,855 g Structures 2.52% 2.00% 5446,466 7 Devices 2.52% 2.00% 370,964 7 d Structures 2.52% 2.00% 370,964 7 d Structures 2.52% 2.00% 370,964 7 d Part Installation 2.52% 2.00% 370,964 7 and Installation 2.52% 2.50% - - boxices 2.52% 2.00% 370,964 - boxices 2.52% 2.00% 370,964 - boxices 2.52% 2.00% 2.50% <t< td=""><td>2001 Plant Additions</td><td></td><td>•</td><td>•</td><td>•</td><td>٠</td><td>•</td><td>٠</td><td>•</td><td>•</td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td></td><td>•</td><td></td><td>,</td><td>•</td><td>•</td><td>•</td><td></td><td>•</td><td></td></t<>	2001 Plant Additions		•	•	•	٠	•	٠	•	•				•	•	•	•	•	•	•	•		•		,	•	•	•		•	
Deprec. Parte PI Rate Rate PI Before After I Nov-02 Nov-02 12/33 n 0.00% 0.00% n 0.00% 0.00% n 2.52% 3.33% n 2.52% 2.00% se 2.52% 2.00% Devices 2.52% 2.00% se 2.52% 2.00% d Dist. System 2.52% 2.50% posal Equipment 2.52% 2.50% posal Equipment 2.52% 3.33% ses 2.52% 2.00% ses 2.52% 3.00% Software 2.52% 3.00% ses 2.52% 3.00% ses 2.52% 2.00% d Los (Londonert 2.52% 4.00% d Clarage Equip 2.52% 10.00% clarage Equip 2.52% 10.00% Equip 2.52% 10.00%	2000 Accum. <u>Depr.</u>		•	•	٠	569	33,704	716,003	•	•	417	12,316	•	•	•	•	•	•	•	•	1,569	2,495	•	ű,	٠	•	ì	•	614,24	•	
Deprec. Deprec. Deprec. Deprec. Deprec. Deprec. Pate Rate Rat	Plant At 12/31/2000			•	•	21,372	555,955	5,446,466	1,508,523	•	11,020	370,964	•	•	•	•	•	•	•	•	5,508	29,620	•	225	•	•	٠	٠	4,460,750	•	•
De Para Para Para Para Para Para Para Par	Deprec. Rate After Nov-02																														
Organization Land Corganization Land Land Collection Sewer Forced Collection Sewer Forced Collection Sewers Gravity Special Collecting Structures Customer Services Flow Measuring Devices Reuse Services Reuse Services Reuse Services Reuse Distribution Reservoirs Reuse Distribution Reservoirs Reuse Distribution Reservoirs Reuse Distribution Reservoirs Reuse Trans. and Dist. System Treatment & Disposal Equipment Plant Sewers Outhall Sewer Lines Outhall Sewer Lines Outhall Sewer Lines Computers and Software Transportation Equipment Tools. Shop And Garage Equip Computers and Software Transportation Equipment Tools. Shop And Garage Equip Communication Equip Other Tangible Plant (Goodyear Capacity) Plant Held for Future Use (Land)	Deprec. Rate Before Nov-02	,	0.00%	0.00%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	0.00%	
Account Mo. 351. 351. 351. 351. 351. 351. 351. 351		Description	Organization	Land	Structures & Improvements	Power Generation	Collection Sewer Forced	Collection Sewers Gravity	Special Collecting Structures	Customer Services	Flow Measuring Devices	Reuse Services	Reuse Meters And Installation	Receiving Wells	Pumping Equipment	Reuse Distribution Reservoirs	Reuse Trans, and Dist. System	Treatment & Disposal Equipment	Plant Sewers	Outfall Sewer Lines	Other Sewer Plant & Equipment	Office Furniture & Equipment	Computers and Software	Transportation Equipment	Stores Equipment	Tools, Shop And Garage Equip	Laboratory Equip	Communication Equip	Other Tangible Plant (Goodyear Capacity)	Plant Held for Future Use (Land)	Dounding

Plant Held for Future Use TOTAL WATER PLANT

12,410,403 1,381,028 474,310 1,742,400 2,216,710 - 14,627,113 (See page 3.14) (See page 3.15)

Exhibit Rebuttal Schedule B-2 Page 3.5

					Goodyear					
		Deprec. Rate	Deprec. Rafe	2002	rmin Plant	2002		2002	2002	
		Before	After	Plant		Adjusted Plant	Plant	Salvage/Adj.	Plant	2002
		Nov-02	Nov-02	Additions		Additions	8	A/D Only	Balance	Deprec.
Account	Ť.									
No	Description									
351	Organization	0.00%	0.00%			•			•	,
353	Land	0.00%	0.00%	•		•			1,742,400	•
354	Structures & Improvements	2.52%	3.33%	8,426,565		8,426,565			8,426,565	109,019
355	Power Generation	2.52%	2.00%	198,964		198,964			220,336	3,295
360	Callection Sewer Forced	2.52%	2.00%			•	(332,823)		223,132	9,648
361	Collection Sewers Gravity	2.52%	2.00%	1,246,938		1,246,938			8,201,927	187,693
362	Special Collecting Structures	2.52%	2.00%	,		•			•	
363	Customer Services	2.52%	2.00%	,		•				
364	Flow Measuring Devices	2.52%	10.00%	515		515			11,535	354
366	Reuse Services	2.52%	2.00%	2,558,799		2,558,799			3,402,302	52,577
367	Reuse Meters And Installation	2.52%	8.33%	9,573		9,573			9,573	<u>1</u>
370	Receiving Wells	2.52%	3.33%	854,000		854,000			854,000	11,049
371	Pumping Equipment	2.52%	12.50%	1,328,499		1,328,499			1,328,499	22,263
374	Reuse Distribution Reservoirs	2.52%	2.50%			•			•	
375	Reuse Trans. and Dist. System	2.52%	2.50%	•		•			•	•
380	Treatment & Disposal Equipment	2.52%	5.00%	4,246,579		4,246,579			4,246,579	57,895
381	Plant Sewers	2.52%	2.00%	•		•			•	,
382	Outfall Sewer Lines	2.52%	3.33%	343,681		343,681			343,681	4,446
389	Other Sewer Plant & Equipment	2.52%	6.67%	6,500		6,500			12,008	251
390	Office Furniture & Equipment	2.52%	6.67%	62,625		62,625			94,014	1,797
390.1		2.52%	20.00%			٠			•	•
391	Transportation Equipment	2.52%	20.00%	•		•			225	თ
392	Stores Equipment	2.52%	4.00%	8,807		8,807			8,807	116
393	Tools, Shop And Garage Equip	2.52%	2.00%	13,557		13,557			13,557	185
394	Laboratory Equip	2.52%	10.00%	77,786		77,786			77,786	1,223
386	Communication Equip	2.52%	10.00%	320,224		320,224			320,224	5,033
398	Other Tangible Plant (Goodyear Capacity)	2.52%	4.00%	•	\$ (4,460,750)	(4,460,750)			,	(726,658)
	Plant Held for Future Use (Land)	0.00%	0.00%			•				•
	Rounding					,			•	1
						•			•	•

Plant Held for Future Use TOTAL WATER PLANT

Exhibit Rebuttal Schedule B-2 Page 3.6

401000000000000000000000000000000000000		Plant	Only Balance Deprec.																		23,117 578												
Deprec. 2003 2003 2003 2003 Deprec. Deprecention	2003	Plant	Retirements				32			74				28	92	8	22				17		69	32				89	81	75			
Deprec. Deprec. Deprec. Before Rate 2003 Description Nov-02 Additions Description Nov-02 Additions Organization 0.00% 0.00% - Land 0.00% 0.00% - Structures & Improvements 2.52% 3.33% 16.292 Collection Sewer Gravity 2.52% 2.00% - Collection Sewer Gravity 2.52% 2.00% - Special Collecting Structures 2.52% 2.00% - Collection Sewer Gravity 2.52% 2.00% - Special Collecting Structures 2.52% 2.00% - Customer Services 2.52% 2.00% - Reuse Meters And Installation 2.52% 2.00% - Receiving Cultiment 2.52% 2.00% - Reuse Services 2.52% 2.00% - Reuse Distribution Reservirits 2.52% 2.50% - Treatment Entries & Equipment <td></td> <th></th> <td></td> <td></td> <td>,</td> <td>•</td> <td>16,29</td> <td>•</td> <td>1</td> <td>35,69</td> <td>1</td> <td>1</td> <td>1</td> <td>35,02</td> <td>38'6</td> <td>1,20</td> <td>4,70</td> <td>•</td> <td>•</td> <td>,</td> <td>23,11</td> <td>•</td> <td>1,05</td> <td>13,00</td> <td>1</td> <td>1</td> <td>•</td> <td>5,16</td> <td>2,28</td> <td>2,8</td> <td>•</td> <td>•</td> <td></td>					,	•	16,29	•	1	35,69	1	1	1	35,02	38'6	1,20	4,70	•	•	,	23,11	•	1,05	13,00	1	1	•	5,16	2,28	2,8	•	•	
Description Deprec. Delete. Deprec. Deleter. Deprec. Deleter. Description Allow-02 Nov-02																																, 9	
Description Organization Land Structures & Improvements Prower Generation Collection Sewer Forced Collection Sewer Forced Collection Sewer Gravity Special Collecting Structures Customer Services Flow Measuring Devices Reuse Services Reuse Services Reuse Services Reuse Services Reuse Services Reuse Distribution Reservoirs Receiving Wells Pumping Equipment Reuse Distribution Reservoirs Reuse Trans. and Dist. System Treatment & Disposal Equipment Plant Sewers Outrall Sewer Lines Outrall Sewer Lines Computers and Software Transportation Equipment Tools. Shop And Garage Equip Laboratory Equip Communication Equip Communication Equip Other Tangible Plant (Goodyear Capacity) Plant Held for Future Use (Land)	_																																
Mo. 1351 3351 3351 3351 3351 3351 3351 335	Deprec Rate	Before	Nov-02	Account											Reuse Meters And Installation	Receiving Wells	Pumping Equipment	Reuse Distribution Reservoirs	Reuse Trans, and Dist. System	Treatment & Disposal Equipment	Plant Sewers	Outfall Sewer Lines	Other Sewer Plant & Equipment	Office Furniture & Equipment	1 Computers and Software		Stores Equipment	Tools, Shop And Garage Equip	Laboratory Equip	Communication Equip	Other Tangible Plant (Goodyear Capacity)	Plant Held for Future Use (Land) 0.00	

Plant Held for Future Use TOTAL WATER PLANT

		Deprec. Rate	Deprec. Rate		2004	2004		2004	2004	
		Before	After	Plant	Plant	Adjusted Plant	Plant	Salvage	Plant	2004
		Nov-02	Nov-02		Adjustments ¹	Additions		A/D Only	Balance	Deprec.
Account	ı									
No.	Description									
351	Organization	0.00%	0.00%			•			,	,
353	Land	0.00%	0.00%	41,026		41,026			1,783,426	
354	Structures & Improvements	2.52%	3.33%	634,988		603,184			9,046,041	291,190
355	Power Generation	2.52%	5.00%	85,152		85,152			305,488	13,146
	Collection Sewer Forced	2.52%	2.00%	40,504	(11,360)	29,145			252,277	4,754
361	Collection Sewers Gravity	2.52%	2.00%	5,765,446		5,714,334			13,951,952	221,896
	Special Collecting Structures	2.52%	2.00%	•		•			•	
363	Customer Services	2.52%	2.00%	•		•			,	
364	Flow Measuring Devices	2.52%	10.00%	10,653		10,653			22,188	1,686
366	Reuse Services	2.52%	2.00%	17,461		17,461			3,454,791	68,921
367	Reuse Meters And Installation	2.52%	8.33%	•		•			13,378	1,114
370	Receiving Wells	2.52%	3.33%	,		,			855,200	28,478
371	Pumping Equipment	2.52%	12.50%	31,621		31,017			1,364,219	168,589
374	Reuse Distribution Reservoirs	2.52%	2.50%			•			•	
375	Reuse Trans, and Dist. System	2.52%	2.50%	,		1			•	
380	Treatment & Disposal Equipment	2.52%	5.00%	53,622		52,559			4,299,138	213,643
381	Plant Sewers	2.52%	2.00%	٠		•			23,117	1,156
382	Outfall Sewer Lines	2.52%	3.33%	•		•			343,681	11,445
389	Other Sewer Plant & Equipment	2.52%	6.67%	97,241		85,907			98,974	3,737
390	Office Furniture & Equipment	2.52%	6.67%	19,825		19,825			126,871	7,801
390.1	Computers and Software	2.52%	20.00%	•		•			•	
391	Transportation Equipment	2.52%	20.00%	•		•			225	45
392	Stores Equipment	2.52%	4.00%	•		•			8,807	352
393	Tools, Shop And Garage Equip	2.52%	2.00%		•	•			18,746	937
394	Laboratory Equip	2.52%	10.00%	4,092	•	4,092			84,159	8,211
396	Communication Equip	2.52%	10.00%	2,312	•	2,312			325,412	32,426
398	Other Tangible Plant (Goodyear Capacity)	2.52%	4.00%	,	٠	٠			•	,
	Plant Held for Future Use (Land)	0.00%	0.00%			•			,	
	Rounding					•				٠
						٠			,	

Plant Held for Future Use TOTAL WATER PLANT

6,803,943 (107,278) 6,696,665

¹ Affiliate Profit

Litchfield Park Service Company - Wastwater Division Plant Additions and Retirements

Exhibit Rebuttal Schedule B-2 Page 3.8

		Deprec. Rate	Deprec. Rate	2005	2005	2005	2005	2005	2005	
		Before	After	Plant	Plant	Adjusted Plant	Plant	Salvage	Plant	2005
		Nov-02	Nov-02	Additions	Adjustments1	Additions	Retirements	A/D Only	Balance	Deprec.
Account										
No.	Description									
351	Organization	0.00%	0.00%		•	,				
353	Land	0.00%	0.00%	٠	•	•			1,783,426	٠
354	Structures & Improvements	2.52%	3.33%	392,473	(14,187)	378,286			9,424,327	307,532
355	Power Generation	2.52%	2.00%		•				305,488	15.274
360	Collection Sewer Forced	2.52%	2.00%	80,546	(7,843)	72,702			324,979	5,773
361	Collection Sewers Gravity	2.52%	2.00%	4,818,977	(135,919)	4,683,058			18,635,010	325,870
362	Special Collecting Structures	2.52%	2.00%	,	•	,			•	. •
363	Customer Services	2.52%	2.00%		•					,
364	Flow Measuring Devices	2.52%	10.00%	17,896	(341)	17,555			39,743	3,097
366	Reuse Services	2.52%	2.00%	3,187		3,187			3,457,977	69,128
367	Reuse Meters And Installation	2.52%	8.33%	•					13,378	1,114
370	Receiving Wells	2.52%	3.33%	4,917	•	4,917			860,117	28,560
37.1	Pumping Equipment	2.52%	12.50%	112,737	(11,712)	101,025			1,465,243	176,841
374	Reuse Distribution Reservoirs	2.52%	2.50%	•	,	,			,	. •
375	Reuse Trans. and Dist. System	2.52%	2.50%	•	,	,			•	
380	Treatment & Disposal Equipment	2.52%	2.00%	222,515	(872)	221,642			4,520,781	220,498
381	Plant Sewers	2.52%	5.00%			,			23,117	1,156
382	Outfall Sewer Lines	2.52%	3.33%	•	,	•			343,681	11,445
389	Other Sewer Plant & Equipment	2.52%	6.67%	207,463	(1,715)	205,748			304,722	13,463
390	Office Furniture & Equipment	2.52%	6.67%	10,431	,	10,431			137,301	8,810
390.1	Computers and Software	2.52%	20.00%	•		•				
391	Transportation Equipment	2.52%	20.00%	9,314	,	9,314			9,540	916
392	Stores Equipment	2.52%	4.00%	1	•	•			8,807	352
393	Tools, Shop And Garage Equip	2.52%	2.00%	13,641	•	13,641			32,387	1,278
394	Laboratory Equip	2.52%	10.00%	•	•				84,159	8,416
396	Communication Equip	2.52%	10.00%	•	•	•			325,412	32,541
398	Other Tangible Plant (Goodyear Capacity)	2.52%	4.00%	ı		•				
	Plant Held for Future Use (Land)	0.00%	0.00%			,			•	•
	Rounding					•				•
						•				•

Plant Held for Future Use TOTAL WATER PLANT

5,894,095 (172,590)

* Affiliate Profit

		Deprec.	Deprec.							
		Rate	Rate	2006	2006	2006	2006	2006	2006	
		Before	After	Plant		Adjusted Plant	Plant	Salvage	Plant	2006
		Nov-02	Nov-02	Additions	Adjustments ¹	Additions	Retirements	A/D O/A	Balance	Deprec.
count										
ģ	Description									
351	Organization	0.00%	0.00%		٠	ř				•
353	Land	%00.0	0.00%	•	٠	•			1,783,426	
354	Structures & Improvements	2.52%	3.33%	1,585,531	(1,378)	1,584,153			11,008,480	340,206
355	Power Generation	2.52%	5.00%	132,105	•	132,105			437,593	18,577
360	Collection Sewer Forced	2.52%	2.00%	756,548	(268)	756,280			1,081,259	14,062
361	Collection Sewers Gravity	2.52%	2.00%	569,086	(78,415)	490,670			19,125,681	377,607
362	Special Collecting Structures	2.52%	2.00%		•	•				. •
363	Customer Services	2.52%	2.00%	•	,	•			•	•
364	Flow Measuring Devices	2.52%	10.00%	4,961	•	4,961			44,704	4,222
366	Rause Services	2.52%	2.00%	•	•	,			3,457,977	69,160
367	Reuse Meters And Installation	2.52%	8.33%	•	•	•			13,378	1,114
370	Receiving Wells	2.52%	3.33%	•	,				860,117	28,642
371	Pumping Equipment	2.52%	12.50%	11,189	(268)	10,621			1,475,864	183,819
374	Reuse Distribution Reservoirs	2.52%	2.50%	,	٠					•
375	Reuse Trans, and Dist. System	2.52%	2.50%	•					•	i
380	Treatment & Disposal Equipment	2.52%	2.00%	104,008	(4,522)	99,487			4,620,267	228,526
381	Plant Sewers	2.52%	2.00%	,	•	•			23,117	1,156
382	Outfall Sewer Lines	2.52%	3.33%	,		•			343,681	11,445
389	Other Sewer Plant & Equipment	2.52%	6.67%	11,685	(443)	11,242			315,963	20,700
390	Office Furniture & Equipment	2.52%	6.67%	9,956	•	9,956			147,257	9,490
390.1	Computers and Software	2.52%	20.00%		•	•			,	•
391	Transportation Equipment	2.52%	20.00%	6,193		6,193			15,733	2,527
392	Stores Equipment	2.52%	4.00%	161		161			8,968	355
393	Tools, Shop And Garage Equip	2.52%	2.00%	•	•	•			32,387	1,619
394	Laboratory Equip	2.52%	10.00%	5,277	•	5,277			89,436	8,680
396	Communication Equip	2.52%	10.00%	,	,	•			325,412	32,541
398	Other Tangible Plant (Goodyear Capacity)	2.52%	4.00%		,				•	,
	Plant Held for Future Use (Land)	0.00%	0.00%						•	,
	Rounding								•	•
						,				

Plant Held for Future Use TOTAL WATER PLANT

3,196,701 (85,595) 3,111,106

1 Affiliate Profit

Littchfield Park Service Company - Wastwater Division Plant Additions and Relirements

Exhibit Rebuttal Schedule B-2 Page 3.10

2007 Degree																25 783														,	,	•
2007 Plant Ratance			•	1,783,4	10,974,6	543,4	1,091,6	20,252,8	•	•	47,0	3,667,5	13,3	860,3	1,530,9	62,625	•	5,156,2	23,1	343,6	398,5	184,4	•	19,1	36	35,4	173,4	325,4				
2007 Salvage	-1																															
2007 nt Plant Retirements					-	7	4	0			5	o.		7	0	5		6			4	5		0		53	89					
2007 Adjusted Plant Additions								-								62,625								3,46	•	3,05	93,96	,	,	•	•	1
2007 Plant Adiustments ¹			•					_								•								•	,		•	•	•			
2007 Plant								-								62,625																
Deprec. Rate After Nov-02																2.50%																
Deprec. Rate Before			00.0	0.00%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	2.52%	_			
	at T	Description	Organization	Land	Structures & Improvements	Power Generation	Collection Sewer Forced	Collection Sewers Gravity	Special Collecting Structures	Customer Services	Flow Measuring Devices	Reuse Services				Reuse Distribution						Office Furniture & Equipment	_				Ī	_	Other Tangible	Plant Held for Future Use (Land)	Rounding	
	Account	Ş	351	353	354	355	360	361	362	363	364	366	367	370	371	374	375	380	38.	382	389	390	390.1	391	392	393	394	396	398			

Plant Held for Future Use TOTAL WATER PLANT

1 Affiliate Profit

		Deprec.	Deprec.	Jan. to Sep.	Jan. to Sep.		Jan. to Sep.				Transferred	Jan. to Sep.	Jan. to Sep.
		Rate	Rate	2008	2008		2008	Staff	Transferred	ΑP	Odor Control	2008	
		Before	After	Plant	Plant	Capitalized	Adjusted Plant		Odor Control	Lift Station	틸	Plant	2008
		Nov-02	Nov-02	Additions	Adjustments ¹	Expenses	Additions	Retirements	Chit	Decommission	AO W	Balance	Deprec.
Account	ir												
No.	Description												
351	Organization	0.00%	0.00%		r	•						F	•
353	Land	0.00%	0.00%		•	•						1,783,426	•
354	Structures & Improvements	2.52%	3.33%	8,402,971	(58,210)	3,725	8,348,487	(388,834)		(8,003)		18,934,312	378,344
355	Power Generation	2.52%	2.00%	195	•	5,004	5,199					548,674	20,478
360	Collection Sewer Forced	2.52%	2.00%	995'69	(154)		69,412					1,161,105	16,896
361	Collection Sewers Gravity	2.52%	2.00%	2,897,310	(36,779)	,	2,860,532	(18,730)				23,094,661	325,247
362	Special Collecting Structures	2.52%	2.00%	•		•	•					•	
363	Customer Services	2.52%	2.00%	,	1	١	•					,	
364	Flow Measuring Devices	2.52%	10.00%	٠	,	•	•					47,019	3,526
366	Reuse Services	2.52%	2.00%	122,768	(886)		121,881					3,789,468	55,928
367	Reuse Meters And Installation	2.52%	8.33%	38,953	•		38,953					52,331	2,053
370	Receiving Wells	2.52%	3.33%	,	ı	•	٠					860,393	21,488
371	Pumping Equipment	2.52%	12.50%	328,661	(1,174)	6,394	333,881	(103,992)				1,760,813	159,175
374	Reuse Distribution Reservoirs	2.52%	2.50%	200	,	•	200					62,825	1,176
375	Reuse Trans. and Dist. System	2.52%	2.50%	414,315	•	٠	414,315					414,315	3,884
380	Treatment & Disposal Equipment	2.52%	5.00%	313,338	(111)	•	313,227		(38,250)		(11,040)	5,431,228	199,232
381	Plant Sewers	2.52%	5.00%	24,893	(222)	•	24,671					47,788	1,329
382	Outfall Sewer Lines	2.52%	3.33%	•		•	•					343,681	8,583
389	Other Sewer Plant & Equipment	2.52%	6.67%	260,567	(14,506)	10,579	256,641	(43,421)				611,767	26,357
390	Office Furniture & Equipment	2.52%	6.67%	14,299	,	,	14,299					198,772	9,586
390.1	Computers and Software	2.52%	20.00%	•		•	ı					,	•
391	Transportation Equipment	2.52%	20.00%	6,885	•	•	6,885	•				26,078	3,395
392	Stores Equipment	2.52%	4.00%	•	•	٠	•					8,968	569
393	Tools, Shop And Garage Equip	2.52%	5.00%	20,727	•	,	20,727					56,167	1,718
394	Laboratory Equip	2.52%	10.00%	544	•	•	2 4					173,948	13,026
396	Communication Equip	2.52%	10.00%	93,585	•	•	93,585					418,996	27,915
398	Other Tangible Plant (Goodyear Capacity)	2.52%	4.00%		•	•	•					•	•
	Plant Held for Future Use (Land)	0.00%	0.00%				į					•	
	Rounding											•	٠
												•	,

Plant Held for Future Use TOTAL WATER PLANT

13,009,777

1 Affiliate Profit

Litchfield Park Service Company - Mastwater Division Plant Additions and Retirements

Exhibit Rebuttal Schedule B-2 Page 3.12

		Deprec.	Deprec.	Year End Accumulated	mlated				
		Rate Before	Rate	Depreciation by Account	y Account				
		Nov-02	Nov-02	2000	2007	2002	2003	2004	2005
Account									
No	Description								
351	Organization	0.00%	0.00%		•	•		٠	
353	Land	%00.0	0.00%	•	•	•	٠		
354	Structures & Improvements	2.52%	3.33%	•		109,019	389,895	681,085	988,616
355	Power Generation	2.52%	5.00%	569	808	4,103	15,120	28,266	43,540
360	Collection Sewer Forced	2.52%	2.00%	33,704	47,714	(275,462)	(270,999)	(266,245)	(260, 473)
361	Collection Sewers Gravity	2.52%	2.00%	716,003	872,262	1,059,955	1,224,350	1,446,246	1,772,116
362	Special Collecting Structures	2.52%	2.00%			•			
363	Customer Services	2.52%	2.00%				•		•
364	Flow Measuring Devices	2.52%	10.00%	417	694	1,049	2,202	3,888	6,985
366	Reuse Services	2.52%	2.00%	12,316	27,618	80,195	148,592	217,513	286,641
367	Reuse Meters And Installation	2.52%	8.33%	•		144	1,100	2,214	3,329
370	Receiving Wells	2.52%	3.33%	•		11,049	39,507	67,985	96,545
371	Pumping Equipment	2.52%	12.50%	•	•	22,263	188,620	357,208	534,050
374	Reuse Distribution Reservoirs	2.52%	2.50%	1		•	•	٠	٠
375	Reuse Trans, and Dist. System	2.52%	2.50%	•	•		•		•
380	Treatment & Disposal Equipment	2.52%	5.00%		•	57,895	270,224	483,867	704,365
381	Plant Sewers	2.52%	5.00%				829	1,734	2.890
382	Outfall Sewer Lines	2.52%	3.33%	,		4,446	15,891	27,336	38,780
389	Other Sewer Plant & Equipment	2.52%	6.67%	1,569	1,708	1,959	2,795	6.532	19,995
390	Office Furniture & Equipment	2.52%	6.67%	2,495	3,263	5,060	11,766	19,567	28,377
390.1	Computers and Software	2.52%	20.00%	ı		•			ı
391	Transportation Equipment	2.52%	20.00%	თ	14	23	89	113	1,090
392	Stores Equipment	2.52%	4.00%	,		116	469	821	1,173
393	Tools, Shop And Garage Equip	2.52%	5.00%	,	,	185	892	1,930	3,208
394	Laboratory Equip	2.52%	10.00%		,	1,223	9,115	17,326	25,742
396	Communication Equip	2.52%	10.00%	,		5,033	37,199	69,625	102,166
398	Other Tangible Plant (Goodyear Capacity)	2.52%	4.00%	614,247	726,658	•		,	•
	Plant Held for Future Use (Land)	0.00%	0.00%	•	,	,	•	,	•
	Rounding			•	•	,		,	•
				٠			,		•

Plant Held for Future Use TOTAL WATER PLANT

	Deprec. Rate Before	Deprec. Rate After	Year End Accumulated Depreciation by Account	mulated by Account	
	Nov-02	Nov-02	2005	2007	2008
Description					
Organization	0.00%	0.00%	,		
Land	0.00%	0.00%	•	•	,
Structures & Improvements	2.52%	3.33%	1,328,823	1,694,842	1,676,349
Power Generation	2.52%	5.00%	62,117	86,644	107,121
Collection Sewer Forced	2.52%	2.00%	U	(224,681)	(207, 785)
Collection Sewers Gravity	2.52%	2.00%	"	2,543,508	2,850,025
Special Collecting Structures	2.52%	2.00%		٠	,
Customer Services	2.52%	2.00%		•	,
Flow Measuring Devices	2.52%	10.00%	11,207	15,793	19,320
Reuse Services	2.52%	2.00%	(1)	427,056	482,984
Reuse Meters And Installation	2.52%	8.33%	4,443	5,557	7,610
Receiving Wells	2.52%	3.33%		153,833	175,322
Pumping Equipment	2.52%	12.50%	717,869	905,793	960,976
Reuse Distribution Reservoirs	2.52%	2.50%	4	783	1,959
Reuse Trans, and Dist. System	2.52%	2.50%	٠	,	3,884
Treatment & Disposal Equipment	2.52%	5.00%	ö	1,177,304	1,365,496
Plant Sewers	2.52%	5.00%	4,045	5,201	6,531
Outfall Sewer Lines	2.52%	3.33%		61,669	70,253
Other Sewer Plant & Equipment	2.52%	6.67%	40,695	64,524	47,460
Office Furniture & Equipment	2.52%	6.67%	37,867	48,930	58,516
Computers and Software	2.52%	20.00%	•	•	,
Transportation Equipment	2.52%	20.00%	3,617	7,110	10,505
Stores Equipment	2.52%	4.00%		1,887	2,156
Tools, Shop And Garage Equip	2.52%	5.00%		6,523	8,241
Laboratory Equip	2.52%	10.00%	34,422	47,564	60,590
Communication Equip	2.52%	10.00%	134,707	167,248	195,163
Other Tangible Plant (Goodyear Capacity)	2.52%	4.00%	•	٠	,
Plant Held for Future Use (Land)	0.00%	0.00%	,	,	
Rounding			•	•	•

Plant Held for Future Use TOTAL WATER PLANT

3,584 7,197,090 7,902,67

Litchfield Park Service Company - Wastwater Division Plant Reconciliation to Prior Rate Case

Exhibit Rebuttal Schedule B-2 Page 3.14

Comparing Part Comparing Part	3 ACCO											1,230,050
Partic Claim Part	A Acco											
Account Counted Search (Continue) Per 2000 Filling Land Distort Office Information Equipment Land Distort Office Information Equipment CMMP CMMP Adjusted Land Distort Office Information Equipment Land Distort Office I	Acco		Balance Per						Prior Case			
No. Description Before Adj. TrantPlant CIAC Plant CIAC Pla	Ž		Per 2000 Filling	Land			CWIP	CWIP	Adjusted	Land	Reclass/	Initial
12.2 2.1.272			Before Adj.		CIAC Plant	CIAC Plant	PIS for 2000	PIS for 2000	Plant	Trmnt Plant	Rounding	Balance
State Continue & Improvements 21,372 21,	35		•						•			•
Section Sect	35		•						,			•
56 Collection Sever Forced 555,955 56,955 57,100 77,100 <td>35</td> <td></td> <td>21,372</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>21,372</td> <td></td> <td></td> <td>21,372</td>	35		21,372						21,372			21,372
364 Collection Sewers Gravity 3,654,748 782,105 1,288,086 563,237 666,813 6,964,989 (1,509,523) 5,44,989 (1,509,523) 1,54,24,000 1,742,2400 782,105 1,288,086 563,237 666,813 6,964,989 (1,509,523) 1,54,24,000 1,120 1,296,523 1,54,24,240 1,296,523 1,54,24,240 1,296,523 1,54,24,240 1,296,523 1,54,24,240 1,296,523 1,54,24,240 1,296,523 1,54,24,240 1,296,523 1,54,24,240 1,296,523 1,54,24,240 1,296,523 1,54,24,240 1,286,088	36	_	555,955						555,955			555,955
942 Special Collecting Structures 1,506,523 1,5 943 Charles Services 1,1020 1,506,523 1,5 944 Flow Measuring Devices 17,020 1,506,523 1,5 956 Flow Measuring Devices 370,964 370,	36	_	3,654,748		782,105	1,288,086	563,237	666,813	6,954,989		(1,508,523)	5,446,466
364 Customer Services 11020 11020 370,964 3 4	36		٠								1,508,523	1,508,523
364 Flow Measuring Devices 11,020 370,964 3 366 Reuse Services 370,964 3 3 367 Reuse Services 370,964 3 3 377 Reuse Distribution Reservoirs - <t< td=""><td>2 36</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td></td><td></td><td>1</td></t<>	2 36		•					•	•			1
366 Reuse Services 370,964 3 367 Reuse Meters And Installation - - 371 Pumping Equipment - - 374 Reuse Distribution Reservoirs - - 375 Reuse Distribution Reservoirs - - 380 Treatment & Disposal Equipment - - 381 Other Sewer Plant & Equipment - - 382 Other Sewer Plant & Equipment - - 383 Other Sewer Plant & Equipment - - 384 Other Sewer Plant & Equipment - - 385 Other Sewer Plant & Equipment - - 386 Other Sewer Plant & Equipment - - 391 Transportation Equipment - - 392 Computers and Softward and Softward - - 393 Interestory Equipment - - 394 Laboratory Equipment - - 395 Computers and Softward and Softward Equipment - - 396 Communication Equipment - - 397 Laboratory Equipment - - 398 Ot	3 36		11,020						11,020			11,020
367 Reuse Meters And Installation - <t< td=""><td>36</td><td></td><td>370,964</td><td></td><td></td><td></td><td></td><td></td><td>370,964</td><td></td><td></td><td>370,964</td></t<>	36		370,964						370,964			370,964
370 Receiving Wells 371 Pumping Equipment 374 Reuse Trans. and Dist. System 376 Reuse Trans. and Dist. System 380 Treatment & Disposal Equipment 380 Office Furniture & Equipment 380 Office Furniture & Equipment 380 Office Furniture & Equipment 381 Transportation Equipment 382 Contraction Equipment 383 Stokes Equipment 384 Laboratory Equip 385 Communication Equipment 386 Communication Equipment 387 Tools. Shop And Garage Equip 388 Communication Equipment 389 Communication Equipment 381 Tools Shop And Garage Equip 384 Laboratory Equip 385 Communication Equipment 386 Communication Equipment 387 Communication Equipment 388 Communication Equipment 389 Communication Equipment 380 Chardy Share Equipment	36		•						•			•
371 Pumping Equipment - 378 Reuse Tans and Dist. System - 380 Treatment & Disposal Equipment - 381 Plant Sewer Tans and Dist. System - 382 Outland Sewer Instead Equipment 5,508 393 Office Furniture & Equipment 5,508 394 Computers and Software - 395 Tons Equipment - 395 Tons Equipment - 395 Tools, Shop And Garage Equip - 395 Communication Equipment - 395 Tools, Shop And Garage Equip - 396 Communication Equipment - 397 Tools, Shop And Garage Equip - 398 Communication Equipment - 399 Tools, Shop And Garage Equip - 391 Tools, Shop And Garage Equip - 392 Tools, Shop And Garage Equip - 393 Tools, Shop And Garage Equip - 394 Laboratory Equip - 395 Communication Equip - 396 Communication Equip - 397 Tools (Ardy) 4,460,750 398 Communication Equip - 3			•						•			ı
374 Reuse Distribution Reservoirs - 387 Reuse Distribution Reservoirs - 387 Parament & Disposal Equipment - 381 Plant Sewer Sand Strate Lines - 382 Outfall Sewer Lines 5,508 393 Other Sewer Plant & Equipment 22,620 390 Office Furniture & Equipment 225 391 Transportation Equipment 225 392 Stores Equipment - 393 Tools, Shop And Garage Equip - 394 Laboratory Equip - 395 Communication Equipment - 396 Other Tangible Plant (Goodyear Capacity) 4,460,750 397 Plant Held for Future Use (Land) 1,742,400 398 Other Tangible Plant (Goodyear Capacity) 1,742,400 400,750 Rounding - 177AL 10,852,562 (1,742,400) 707AL 1,2410,405	7 37		ı						,			•
316 Reuse Trans. and Dist. System - 380 Treatment & Disposal Equipment - 381 Treatment & Disposal Equipment - 382 Outfall Sewer Lines - 383 Outfall Sewer Lines - 390 Office Furniture & Equipment 29,620 390 Office Furniture & Equipment 225 391 Transportation Equipment - 392 Stores Equipment - 393 Tools, Shop And Garage Equip - 394 Laboratory Equipment - 395 Communication Equipment - 396 Communication Equipment - 397 Hour Tangible Plant (Goodyear Capacity) 4,460,750 398 Other Tangible Plant (Goodyear Capacity) 1,742,400 17,42,400 1,742,400) 10,852,562 (1,742,400) 782,105 1,288,086 563,237 666,813 12,410,405 10,852,662 (1,742,400) 782,105 1,288,086 563,237 666,813 12,410,405			•						•			•
380 Treatment & Disposal Equipment -			1						•			
381 Plant Sewers -		•	•									•
382 Outfall Sewer Lines 5.508 <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td>•</td>			•						•			•
389 Other Sewer Plant & Equipment 5,508 390 Office Furniture & Equipment 5,508 391 Computers and Software 225 392 Stores Equipment 225 393 Tools, Shop And Garage Equip 225 394 Laboratory Equip - 395 Communication Equipment - 396 Other Tangible Plant (Goodyear Capacity) 4,460,750 398 Other Tangible Plant (Goodyear Capacity) 4,460,750 398 Other Tangible Plant (Goodyear Capacity) 4,460,760 Plant Held for Future Use (Land) 1,742,400 (1,742,400) Rounding 2 (2) TOTAL TOTAL		_	•						•			•
390 Office Furniture & Equipment 29,620 390.1 Computers and Software 225 391 Transportation Equipment 225 392 Stores Equipment - 393 Tools, Shop And Garage Equip - 394 Laboratory Equip - 395 Communication Equip - 396 Other Tangible Plant (Goodyear Capacity) 4,460,750 398 Other Tangible Plant Held for Future Use (Land) 1,742,400 (1,742,400) Rounding 2 (2) TOTAL TOTAL		_	5,508						5,508			5,508
390.1 Computers and Software 255 225 239. Transportation Equipment 255 239. Transportation Equipment 259. Transportation Equipment 259. Stores Equipment 2		_	29,620						29,620			29,620
391 Transportation Equipment 225 392 Stores Equipment - 393 Tools, Shop And Garage Equip - 394 Laboratory Equip - 395 Laboratory Equip - 396 Communication Equip - 397 Other Tangible Plant (Goodyear Capacity) 4,460,750 398 Other Tangible Plant (Goodyear Capacity) 1,742,400 399 Other Tangible Plant (Goodyear Capacity) 1,742,400 390 Other Tangible Plant (Goodyear Capacity) 1,742,400 390 Other Tangible Plant (Goodyear Capacity) 1,742,400 <		_	•						•			•
392 Stores Equipment 393 Tools, Shop And Garage Equip 394 Laboratory Equip 394 Laboratory Equip 396 Communication Equip 396 Other Tangible Plant (Goodyear Capacity) 397 Laboratory Equip 398 Other Tangible Plant (Goodyear Capacity) 399 Communication Equipment 390 Communication Equipment 390 Communication Equipment 391 Communication Equipment 391 Communication Equipment 392 Communication Equipment 393 Communication Equipment 394 Laboratory Equipment 395 Communication Equipment 396 Communication Equipment 397 Communication Equipment 397 Communication Equipment 398 Communication E		_	225						225			225
393 Tools, Shop And Garage Equip			•						•			•
394 Laboratory Equip 396 Communication Equip 397 Communication Equip 398 Other Tangible Plant (Goodyear Capacity) 398 Communication Equip 398 Laboratory Equip 398 Communication Equip 398		•	•						•			•
396 Communication Equip 398 Other Tangible Plant (Goodyear Capacity) 4,460,750 4,460,750 4,460,750 598 Other Tangible Plant (Goodyear Capacity) 4,460,750 Flant Held for Future Use (Land) 1,742,400 (1,742,400) 782,105 1,288,086 563,237 666,813 12,410,405 TOTAL		_	•						•			•
398 Other Tangible Plant (Goodyear Capacity) 4,460,750 Plant Held for Future Use (Land) 1,742,400 (1,742,400) Rounding TOTAL (Goodyear Capacity) 4,460,750 1,742,400) 782,105 1,288,086 563,237 666,813 12,410,405 -		Ī							•			1
Plant Held for Future Use (Land) 1,742,400 (1,742,400) - 2 (2) Rounding TOTAL 10,852,562 (1,742,400) 782,105 1,288,086 563,237 666,813 12,410,405 -			4,460,750						4,460,750			4,460,750
Z (2) TOTAL 10,852,562 (1,742,400) 782,105 1,288,086 563,237 666,813 12,410,405 -	7	Plant Held for Future Use (Land)	1,742,400	(1,742,400)					•			•
TOTAL TOTAL 10,852,562 (1,742,400) 782,105 1,288,086 563,237 666,813 12,410,405 -	ლ -	Rounding							7		(3)	1
	+ ro	TOTAL	10,852,562	(1,742,400)	782,105	1,288,086	563,237	666,813	12,410,405			12,410,403

Rebuttal Schedule B-2

Exhibit

Litchfield Park Service Company - Wastwater Division A/D Reconciliation to Prior Rate Case

417 12,316 Initial Intentionally Blank Page 3.15 Left 417 12,316 Adjusted A/D Prior Case Computed Intentionally Intentionally 1996-2000 Left Left Blank Blank Depr Adj Goodyear Capacity Company 701 23,606 Per 2000 Filing **Balance Per** Before Adj. Company Reuse Transmission And Distribution System Freatment & Disposal Equipment** Other Sewer Plant & Equipment Fools, Shop And Garage Equip Reuse Meters And Installation Reuse Distribution Reservoirs Office Furniture & Equipment Special Collecting Structures Structures & Improvements **Fransportation Equipment** Collection Sewers Gravity Computers and Software Collection Sewer Forced Flow Measuring Devices Communication Equip Other Tangible Plant Pumping Equipment **Outfall Sewer Lines** Customer Services Power Generation Stores Equipment Laboratory Equip Reuse Services Receiving Wells Plant Sewers Description TOTAL Account 390.1 391 382 389 390 392 393 394 396 398 380 362 363 364 381 366 371

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 2

Exhibit Rebuttal Schedule B-2 Page 4 Witness: Bourassa

Line											
શ					∢	co	ပ	<u>م</u>	ш	ıL	
-	Accur	Accumulated Depreciation				Transfer				Differnce	Rebuttal
7			Per Books	ooks		ŏ	Lift Station	ΑD		ę	Adjusted
က	Acct.		Accum.	m.	Plant	Odor Control	Decommission	Capitalized		Computed	Accum.
4	Š		Depr.	띪	Retirements	Unit to BMSC	<u>Adjustment</u>	Expenses		Balance	Depr.
റ ഗ	353	Organization Land								4 1	a 1
۸ ر	354		2	73 139	(388 834)		(8,003)	47		Ī	1 676 340
- 00	355		i `	107.028	(100,000)		(200,0)	76			1,07,043
0	360	_	•	(207, 785)				5 =			(207.785)
9	361	_	, 2 , 2	2,868,755	(18,730)			,		• •	2.850.025
=	362			. •				,		•	
12	363	_						,		•	•
13	364	Flow Measuring Devices		19,320				•		•	19.320
4	366		•	482,984				•		•	482.984
15	367	Reuse Meters and Installation		7,610				•		•	7,610
16	370	_		175,322				•		•	175,322
17	371		÷	1,064,668	(103,992)			300		1	926'096
18	374			1,959				,		•	1,959
19	375	ш.		3,884				•		•	3,884
20	380) Treatment & Disposal Equip.		1,376,536		(11,040)		0)		•	1,365,496
53	381			6,531				•		•	6,531
22	382	_		70,253				,			70,253
23	389			90,616	(43,421)			265		•	47,460
5 4	390			58,516				•		•	58,516
52	390.1	_		,				•		,	•
56	391			10,505				•		•	10,505
27	392	••		2,156				•		•	2,156
28	393	•		8,241				•		,	8,241
53	394	_		60,590				1		•	065'09
99	396			195,163			•	•		•	195,163
31	398	3 Other Tangible Plant		•							•
35											
8 8		IOIALS	o A	8,475,991	\$ (254,977) \$	\$ (11,040) \$	(8,003)	\$ 705	ı € 7	· •	\$ 7,902,675
4 g	7		1								
ဗို ဗို	Aglu	Adjusted Accumulated Depreciation per Direct	rect							•	\$ 8,475,991
3 %	lacte	locrease (decrease) in Plant-in-Sepuice									¢ (570,046)
38	5 =	ממפה (מכתו במפה) יוון ומוון יוון מחור יוון									
33	Adjus	Adjustment to Plant-in-Service									\$ (573.316)
4										•	
4 4	SUP	SUPPORTING SCHEDULES Rebuttal B-2, pages 3.4 to 3.15									
€	Rebu	Rebuttal B-2, page 4.1 to 4.4									

Litchfield Park Service Company - Wastewater Division
Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 2 - A

Exhibit Rebuttal Schedule B-2 Page 4.1 Witness: Bourassa

Line		
<u>No.</u>		
1	A/D Plant Retirements	
2		* (222.22.4)
3	354 - Structures and Improvements	\$ (388,834)
4	361 - Collection Sewer - Gravity	(18,730)
5	371 - Pumping Equipment	(103,992)
6	389 - Other Plant and Miscellaneous Equipment	(43,421)
7		
8	Increase (Decrease) in Plant-in-Service	<u>\$ (554,977)</u>
9		
10		
11		
12		
13		
14	SUPPORTING SCHEDULES	
15	Rebuttal B-2, page 3.1	
16		

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments Adjustment Number 2 - B

Exhibit Rebuttal Schedule B-2 Page 4.2 Witness: Bourassa

Line						
<u>No.</u>						
1	Computation of A/D for transfered Odor Control Ur	nit to Black M	<u>ountain Sew</u>	<u>er Compar</u>	ıy ("BMSC")	
2						
3	Cost	\$ 38,250	(from B-2,	page 3.2)		
4						
5			Number of	_		Accumulated
6	Year	Rate	Months	Percent	Half Year	Depreciation
7	2002 *	2.52%	11	91.67%	50%	441.79
8	2002	5%	1	8.33%	50%	79.69
9	2003	5%	12	100%	100%	1,912.50
10	2004	5%	12	100%	100%	1,912.50
11	2005	5%	12	100%	100%	1,912.50
12	2006	5%	12	100%	100%	1,912.50
13	2007	5%	12	100%	100%	1,912.50
14	2008	5%	6	50%	100%	956.25
15					_	
16	Total					\$ 11,040.23
17					_	
18	*The depreciation rate before November 2002 was 2.52% and after	er was 5%				
19	110 000					
20	Adjustment to Accumulated Depreication					\$ (11,040)
21	, ajaounon to , aounius ao provincio				=	
22						

Litchfield Park Service Company - Wastewater Division
Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 2 - C

Exhibit Rebuttal Schedule B-2 Page 4.3 Witness: Bourassa

Line			
<u>No.</u> 1	Decommissioning Costs of Lift Station Requirement		
2 3 4	354 - Structures and Improvements - Yahweh Contracting LLC (Lift station removal/retirement)	\$	(8,003)
5 6			
7	Increase (Decrease) in Plant in Society	\$	(8,003)
8 9	Increase (Decrease) in Plant-in-Service	_ _	(-17
10 11			
12 13			
14 15			
16 17			
18 19			
20	See testimony		
21 22			

Litchfield Park Service Company - Wastewater Division
Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments Adjustment Number 2 - D

23 24 Exhibit Rebuttal Schedule B-2 Page 4.4 Witness: Bourassa

Line							
<u>No.</u>							
1	A/D on	Capitalized Plant					
2							
3			<u>Depr.</u>	<u>Original</u>	Yr .	_	
4	Acct.	Decsription	<u>Rate</u>	Cost	Factor		eciation
5	354	Structures & Improvements		\$ 3,725	0.375	\$	47
6	355	Power Generation	5.00%	5,004	0.375		94
7	371	Pumping Equipment	12.50%	- ,	0.375		300
8	389	Other Sewer Plant & Equip	6.67%	10,579	0.375		265
9							
10							
11	Increase	e (Decrease) in Plant-in-Serviœ				\$	705
12							
13							
14							
15							
16	<u>SUPPO</u>	RTING SCHEDULE					
17	Rebutta	I B-2, page 3.3					
18							
19		e T					
20							
21							
22	See tes	timony					

Litchfield Park Service Company - Wastervater Division Test Year Ended September 30, 2008 Original Cost Rate Base Proforma Adjustments

Exhibit Rebuttal Schedule B-2 Page 5 Witness: Bourassa

Ad Book Plant-in-Service \$ Book Accum. Deprec. (Fred Assets \$ \$ ALAC Tax Benefits from bonus depr. Wastewater Division allocation factor	Adjusted Book Value 133,539,465 (16,529,695) (18,029,142) \$ 97,802,638 \$ \$ (29,326,533) Infector	Probability Probability Probability Probability Probability Probability Probability Probability Plant-in-Service State Plant-in-Service Plant-in-Servic	 Deductible TD (Tarable TD) Expected to <u>be Realized</u> \$ (38,845,888) \$ 29,326,333 \$ 7,490,359 Net Asset (Liability)	Tax Rate 38 6%, 38 6%, 38 6%	Future Ta Current S (783,181) 0 42777 S (335,020)	reat Non-Current 6 S 11,320,042 S 2,891,278 S (783,181) 0,42777	Future Jurrent	Fuure Tax Liability
DIT Asset (Liability) per Direct Adjustment to DIT	5				\$ (15,987) \$ 319,033	d 1		

Adjusted Water and Wastewater - per Rebuttal B-2, page 2 (Water Division) and Rebuttal B-2, page 2 (Wastewater Division

Line									
ğ	Deferred Income Tax as of September 30, 2008 (Water and Wastewater Divisions)	of Sente	mber 30, 2008 (V	Vater and Waster	water Divisions)	4			
, r					Frodability of Realization	šĒ	Deductible 1 D (Taxable TD)		
4			Adjusted		of Future	2	Expected to	Tax	
ς,	i i		Book Value	Tax Value	Tax Benefit	즤	be Realized	Rate	Chr
0 1 0	Accum. Deprec.	•	(16,929,695)						
	CIAC Fixed Asserts	-	97 802 628	022 98 956 770	100 0%	u	(38 845 858)	38.6%	
	AIAC	S			100.0%		29,326,533	38.6%	
= 2	Tax Benefits from bonus depr	lepr.			100.0%	s	7,490,359 3	38.6%	
2 5									,
4 7						Net A	Net Asset (Liability)		م
2 9	Wastewater Division allocation factor	ation fa	ctor						
18	Allocated DIT Asset (Liability)	(áility)							s
19	DIT Asset (Liability) per Direct	Direct							۰,
77	Adjustment to DIT								ν
2 2	¹ Adjusted Wage and Wastewater - per Rebuttal B-2, page 2 (Water Division) and Rebuttal B-2, page 2 (Wastewater Division	stewater	r - per Rebuttal B-2	2, page 2 (Water I	Oivision) and Rebu	ftal B.	-2, page 2 (Wastew	ater Division	
25	2 Based on wastewater division rate base relative to total of both water and wastewater division rate base	rision ra	te base relative to t	total of both water	and wastewater di	ivision	rate base		
27 28	Adjusted for post-lesst year plant (water and wastewater **Computation of Net Tax Value at September 31, 2008 (water and wastewater **Computation of Net Tax Value at September 31, 2008)	ar plant x Valuc	(water and wastew at September 30, 2	/ater 008 (water and water	astcwaler				
56	מאס אשו אסויז וווס חאפס	i cira	report (precima	(20,7,10,0)					
99 :	Unadjusted Cost per 2008 Tax Depr Report	ax Depr	Report			n	71.524.622		
33.5	Leas Plant added after September 2008 Net Unadjusted Cost	tember 4.	8				(4,007,007)	\$ 67,461,925	52
	Basis Reduction 2007 and Prior (from 2007 Tax Depr. Report)	тот (Ггоп	1 2007 Tax Depr Repo	E				(2.849.349)	49)
¥ 15	Bypus Depreciation Computation Jan to Sept. 2008	dation Jan	10 Scal 2008						
36	Bonus Dept. for 12 months for 2008 per Tex Dept. Report	for 2008 p	per Tax Dept. Report	9		u	14,407,232		
386	Less: 2008 bonus Dept for plant added after September 2008 Net 12 months of Bonus Dept for plant added from Jan. to Sept. 2008	prentace pritorple	at added from Jan. to S	ept. 2008		5	12.375.882		
39	Factor (9 months of 2008 or 9/12)	(21.6					0.75		
4 4	Bonus Depreciation for 9 months of 2008	onths of	2008					(5181.912)	(2)
4 5	2008 Depreciation Computation Jan. to Sept. 2008	tion lan 1	W Sept 2008						
43	2008 Tax Depreciation (12 Months) per Tax Depr. Report	Months)	per Tax Depr. Report			n	1,817,974		
4 4	Less: 2008 dept. for plant added after September 2008	added afte	r September 2008				(47,726)		
÷ 4	Net 12 months of oept. 10f plant south Jan. to Sept. 2006 Ractor (9 months of 2008 or 9/12)	plant acort r 9/12)	ed Jan. to Sept. 2008			•	0.75		
47	Tax Depreciation for 9 months of 2008	aths of 20K	80					(1.327.686)	(98)
3 €	1							1008001	5
20	Post Test Year Plant (added in 2009)	in 2009)						1.885.770	: el
5 51		į	- A 20 A					044 250 25	Ē
1 52 3	rection value of platicipation of a Schreisbon of, evon	and an are	and the						ŀ
: 22 :	Tax Benetits from bonus depreciation	reciation							
2 5	Net Income before tax	s	930.677	(from E-2 for both W	930.677 (from E-2 for both Water and Wastewater)				
200			÷						
,									

⁵ Tax Benefits from bonus depreciation

•	Add: Rook Demoistion		2 553 660 (from E-2 for both Water and Wastewater)
•	TOTAL DOOR TO DECIMATE		Commanded to the last of the second to the s
	Less: Tax Depreciation		
	OctDec. 2007		(365.098) (from 2007 tax report \$1,460.292 times 3/12)
	Jan Sept. 2008		(10,609.598) (from above \$9.281,912 plus \$1,327,686)
	Taxable Income ((loss)	s	(7,490,359)

Litchfield Park Service Company - Wastewater Division
Test Year Ended September 30, 2008
Original Cost Rate Base Proforma Adjustments
Adjustment Number 4

Exhibit Rebuttal Schedule B-2 Page 6 Witness: Bourassa

Line		
<u>No.</u> 1	AIAC and CIAC Related to Plant Retirements	
2		# (16.640)
3	Advances-in-Aid of Construction	\$(16,649)
4		A (00.046)
5	Constributions-in-Aid of Construction	\$(93,346)
6		
7		
8		
9		
10		
11		
12		
13		
14		
15	See Staff Adjustment 1 Schedule JMM-WW5	

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Computation of Working Capital

17

Exhibit Rebuttal Schedule B-5

Page 1 Witness: Bourassa

Line <u>No.</u>			
1	Cash Working Capital (1/8 of Allowance		
2	Operation and Maintenance Expense)	\$	711,419
3	Pumping Power (1/24 of Pumping Power)		11,148
4	Purchased Water (1/24 of Purchased Water)		50
5	Prepaids		72,782
6	Materials & Supplies		-
7	.,		
8			
9	Total Working Capital Allowance	\$	795,399
10	,		
11			
12	Working Capital Requested		
13			
14			
15	SUPPORTING SCHEDULES:	RECAP SCHEDULE	<u>:S:</u>
16	Rebuttal C-1	Rebuttal B-1	

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008

Income Statement

Exhibit Schedule C-1 Page 1 Witness: Bourassa

Line <u>No.</u>			Test Year Adjusted <u>Results</u>	Ad	justment		Rebuttal Test Year Adjusted Results	Proposed Rate Increase		Rebuttal Adjusted with Rate Increase
1	Revenues								_	
2	Flat Rate Revenues	\$	6,164,589	\$	-	\$	6,164,589	\$4,776,618	\$	10,941,207
3	Measured Revenues		92,030		-		92,030	-		92,030
4	Other Wastewater Revenues		99,755				99,755	-		99,755
5		\$	6,356,374	\$	-	\$	6,356,374	\$4,776,618	\$	11,132,993
6	Operating Expenses									
7	Salaries and Wages	\$	-		-	\$	-	-	\$	- 4 005
8	Purchased Water and WW Treatment		1,205		-		1,205	-		1,205
9	Sludge Removal Expense		267,554		-		267,554	-		267,554
10	Purchased Power		632,064		-		632,064	-		632,064
11	Fuel for Power Production		2,076		-		2,076	-		2,076
12	Chemicals		279,749		-		279,749	-		279,749
13	Materials and Supplies		75,579		-		75,579	-		75,579
14	Contractual Services		3,117		-		3,117	-		3,117
15	Contractual Services- Testing		33,348		-		33,348	-		33,348
16	Contractual Services - Other		2,716,001		72,805		2,788,806	-		2,788,806
17	Contractual Services - Legal		24,084		-		24,084	-		24,084
18	Equipment Rental		78,309		-		78,309	-		78,309
19	Rents - Building		18,976		-		18,976	-		18,976
20	Transportation Expenses		69,551		-		69,551	-		69,551
21	Insurance - General Liability		32,133		-		32,133	-		32,133
22	Insurance - Vehicle		2,213		-		2,213	-		2,213
23	Regulatory Commission Expense		19,133		(1,136)		17,997	-		17,997
24	Reg.Comm. Exp Rate Case		70,000		-		70,000	-		70,000
25	Miscellaneous Expense		36,656		(494)		36,162	-		36,162
26	Bad Debt Expense		43,889		(21,791)		22,098	-		22,098
27	Depreciation and Amortization		1,550,237		(27,149)		1,523,088	-		1,523,088
28	Taxes Other Than Income		-		-		-	-		-
29	Property Taxes		336,629		(2,865)		333,764	-		333,764
30	Income Tax		(99,906)		(6,532)		(106,438)	1,843,721		1,737,283
31	moonio rax		(,,		, , ,		-			
32	Total Operating Expenses	\$	6,192,596	-\$	12,838	\$	6,205,434	\$1,843,721	\$	8,049,155
33	Operating Income	\$	163,778	\$	(12,838)	\$	150,940	\$2,932,897	\$	3,083,837
34	Other Income (Expense)	•		·	. , ,					
35	Interest Income		-		-		-	-		-
36	Other income		_		-		-	-		-
37	Interest Expense		(322,703)		2,446		(320,256)	-		(320, 256)
			(022,100)		_,		-	-		· ·
38	Other Expense									
39	Total Other Income (Expense)	\$	(322,703)	\$	2,446	\$	(320,256)	\$ -	\$	(320,256)
40	Total Other Income (Expense)	-\$	(158,925)	\$	(10,391)	\$	(169,316)	\$2,932,897	\$	2,763,581
41	Net Profit (Loss)	<u> </u>	(100,020)		<u> </u>	Ť	(= = 7 = 10)	12-7	÷	
42	CURRORTING COUEDINES.							RECAP SCH	FD	JIES:

43 44

45 46 SUPPORTING SCHEDULES: Rebuttal C-1, page 2

RECAP SCHEDULES: Rebuttal A-1

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Income Statement

Exhibit Rebuttal Schedule C-1 Page 2.1 Witness: Bourassa

			. •	r	c	•		u	.	Continued on Page 2.2	Ę
		:	-	7	· ·	•			- - - -	. (
		Test Year			Contractual	Meals			Capitalized	Kemove	ø)
		Adjusted	Depreciation	Property	Services	ප් ි			and Decomm.	Rate Case	ě
		Results	Expense	Tax	Aerotek	Entertainment		Expense	Expenses	Expense	ΦH
Revenues	ý										
Flat	Flat Rate Revenues	\$ 6,164,589									
Mea	Measured Revenues	92,030									
Othe	Other Wastewater Revenues										1
		\$ 6,356,374	·	€	69	ь	\$	↔	•	\$	
Operatin	Operating Expenses										
Sala	Salaries and Wages										
Puc	Purchased WW Treatment	1.205									
7	Studge Removal Expense	267,554									
2	Durchased Dower	632 064									
2 4	First for Dower Production	2 076									
ביים ביים	ĕ	27.00									
Š	Chemicals	2/9,/49									
Mate	Materials and Supplies	75,579									
CO	Contractual Services	3,117									
Con	Contractual Services- Testing	33,348									
2	Contractual Services - Other	2 716 001			(42,200)	6			(33.705)		
	Contractual Services - Legal	24 084				•			(
5 1		78,309									
בר בר	priorit Kerital	10,000									
Ye.	Kents - Builaing	0/8/01									
Ta.	Transportation Expenses	69,551									
nsul	Insurance - General Liability	32,133									
nsu	Insurance - Vehide	2,213									
Reg	Regulatory Commission Expense	19,133								5	(1,136)
Red	Reg.Comm. Exp Rate Case	70,000									
Misc	Miscellaneous Expense	36,656				_	(494)				
Bad	Rad Debt Expense	43.889						(21,791)			
Dep	Depreciation and Amortization	1,550,237	(27,149)	=							
Tax	Taxes Other Than Income	•									
G Q	Property Taxes	336,629		(2,865)	35)						
200	Income Tax	(906,66)									
		•									
Total Or	Total Operating Expenses	\$ 6,192,596	\$ (27,149) \$	(2,865)	55) \$ (42,200)	so.	(494) \$	(21,791)	\$ (33,705)	\$	(1,136)
Operation	Operating Income		\$ 27,149		57	\$ 00	494 \$	21,791	\$ 33,705	€	1,136
Other In	Other Income (Expense)										
Inte	Interest Income	•									
ð	Other income										
nte	Interest Expense	(322,703)									
. ਰ	Other Expense	. '									
		ŀ									-
Total Q	Total Other Income (Expense)		↔	co	φ.		сэ				
Net Pro	Net Profit (Loss)	\$ (158,925)	\$ 27,149	9 \$ 2,865		\$ 00	494 \$	21,791	\$ 33,705		1,136
S	SUPPORTING SCHEDULES:										
æ	Rebuttal C-2										

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008

Exhibit Rebuttal Schedule C-1 Page 2.2

		Ē	Income Statement				Page 2.2 Witness: Bourassa	rassa	
	Continued from								
	Page 2.1	(•	;	;				1
	8 Remove	Central	2	F	1.2 Intentionally	Reputtal Test Year	Proposed	LÆ	Rebuttal Adjusted
	Unnecessary	Cost	Interest Synchronization	Income Tax	Left	Adjusted Results	Rate	3 -	with Rate Increase
Revenues	2011200			į				=1	
Flat Rate Revenues						\$ 6,164,589	\$ 4,776,618	67	10,941,207
Measured Revenues Other Wastewater Revenues						92,030			99,755
Operating Expenses				:		\$ 6,356,374	\$ 4,776,618	€9	11,132,993
Salaries and Wages						·		47	•
Purchased WW Treatment						1,205			1,205
Sludge Removal Expense						267,554			267,554
Purchased Power						632,064			632,064
Fuel for Power Production						2,076			2,076
Materials and Constine						75,570			75,579
Contractual Services						3.117			3.117
Contractual Services-Testing						33,348			33,348
Contractual Services - Other	(3.128)	151,838				2,788,806			2,788,806
Contractual Services - Legal						24,084			24,084
Equipment Rental						78,309			78,309
Rents - Building						18,976			18,976
ğ						69,551			69,551
Insurance - General Liability						32,133			32,133
Insurance - Vehicle						2,213			2,213
Regulatory Commission Expense						17,997			17,997
Reg.Comm. Exp Rate Case						70,000			70,000
Miscellaneous Expense						36,162			36,162
Bad Debt Expense						22,098			22,098
Depreciation and Amortization						1,523,088			1,523,088
Taxes Other Than Income						333 764			333 764
Income Tax				(6,532)		(106,438)	1,843,721	721	1,737,283
Total Operating Expenses	(3,128)	\$ 151,838	- 8 8	\$ (6,532)	\$ (\$ 6,205,434	\$ 1,843,721	21 \$	8,049,155
Operating Income					1	1	63	L	3,083,837
Other Income (Expense)									
interest income						•			•
Other income			2.446			(320,256)			(320,256)
Other Expense									· •
Total Other Income (Expense)	·	\$	\$ 2,446			\$ (320,256)	l	1	(320,256)
Net Profit (Loss)	\$ 3,128	\$ (151,838)	₩	\$ 6,532	\$		\$ 2,932,897	\$ 268	2,763,581
SUPPORTING SCHEDULES: Rebuttal C-2							RECAP SCHEDULES: Rebuttal C-1, page 1	HEDULE 1, page	ю !

 $\begin{array}{c} \frac{1}{10} \\ \frac{1$

Exhibit Schedule C-2 Page 1 Witness: Bourassa

Revenues	1 Depreciation Expense	Property <u>Taxes</u>	Contractual Serv. <u>Aerotek</u>	Meals & Entertainment	Bad Debt Expense	Capitalized	·
Expenses	(27,149)	(2,865)	(42,200)	(494)	(21,791)	(33,705)	(128,204)
Operating Income	27,149	2,865	42,200	494	21,791	33,705	128,204
Interest Expense Other Income / Expense							
Net Income	27,149	2,865	42,200	494	21,791	33,705	128,204
		Adjustments to	Adjustments to Revenues and Expenses	enses			
	Z Remove	8 Remove	9 Central Office	10 Interest	# <u>}</u>	12	Subtotal
Revenues	Rate Case Exp.	Unnecessary Exp.	Costs	Synchronization	income lax	Diank	•
Expenses	(1,136)	(3,128)	151,838		(6,532)		12,838
Operating Income	1,136	3,128	(151,838)	,	6,532	•	(12,838)
Interest Expense				2,446			2,446
Income / Expense							,
Net Income	1,136	3,128	(151,838)	2,446	6,532	•	(10,391)
	13	Adjustments to	Adjustments to Revenues and Expenses	senses 16	17	뛰	Total
Revenues	Blank	Blank	Blank	Blank	Blank	Blank	•
Expenses			:				12,838
Operating Income	•	ı	•	•	•	•	(12,838)
Interest Expense							2,446
Income / Expense							•

Litchfield Park Service Company - Wastewater Division

Test Year Ended September 30, 2008 Adjustments to Revenues and Expenses Adjustment Number 1

46 B-2, page 3

Exhibit Schedule C-2 Page 2 Witness: Bourassa

		Adjustment Number		Williess, Doulds	34
Line					
<u>No.</u>					
1	<u>Deprecia</u>	ation Expense	المحمد المالية		
2			Adjusted	Dunmanad	Depresiation
3	Acct.		Original	Proposed	<u>Depreciation</u>
4	<u>No.</u>	<u>Description</u>	<u>Cost</u>	Rates	<u>Expense</u>
5	351	Organization		0.00%	-
6	353	Land	1,783,426	0.00%	- 020 740
7	354	Structures & Improvements	18,941,384	3.33%	630,748
8	355	Power Generation	548,674	5.00%	27,434
9	360	Collection Sewer Forced	1,161,105	2.00%	23,222
10	361	Collection Sewers Gravity	23,094,661	2.00%	461,893
11	362	Special Collecting Structures	-	2.00%	-
12	363	Customer Services	-	2.00%	
13	364	Flow Measuring Devices	47,019	10.00%	4,702
14	366	Reuse Services	3,789,468	2.00%	75,789
15	367	Reuse Meters and Installation	52,331	8.33%	4,359
16	370	Receiving Wells	860,393	3.33%	28,651
17	371	Pumping Equipment	1,760,813	12.50%	220,102
18	374	Reuse Distribution Reservoirs	62,825	2.50%	1,571
19	375	Reuse Trans. and Dist. System	414,315	2.50%	10,358
20	380	Treatment & Disposal Equip.	5,431,228	5.00%	271,561
21	381	Plant Sewers	47,788	5.00%	2,389
22	382	Outfall Sewer Lines	343,681	3.33%	11,445
23	389	Other Sewer Plant & Equip.	611,767	6.67%	40,805
24	390	Office Furniture & Equipment	198,772	6.67%	13,258
25	390.1	Computers and Software	-	20.00%	-
26	391	Transportation Equipment	26,078	20.00%	5,216
27	392	Stores Equipment	8,968	4.00%	359
28	393	Tools, Shop And Garage Equip	56,167	5.00%	2,808
29	394	Laboratory Equip	173,948	10.00%	17,395
30	396	Communication Equip	418,996	10.00%	41,900
31	398	Other Tangible Plant	-	10.00%_	-
32	000	TOTALS	\$ 59,833,807	_	\$ 1,895,964
33		, •==			
34	Loss: Ar	nortization of Contributions			
35	361	Collection Sewers Gravity	\$ 18,643,786	2.00%	\$ (372,876)
36	001	onionion comerciana,			
37	Total De	preciation Expense		-	\$ 1,523,088
38	TOTAL DE	production Expende			
39	Toet Vo	ar Depreciation Expense			1,550,237
40	1651 166	al Depreciation Expense		_	
41	Increses	e (decrease) in Depreciation Expense			(27,149)
	moreast	(decrease) in Depresident Expense		=	
42	A	ant to Dayonyon and/or Evnenses			\$ (27,149)
43	Adjustm	ent to Revenues and/or Expenses		=	<u> </u>
44		TTU 0 00 UEDI II E			
45	SUPPO	RTING SCHEDULE			

Exhibit Rebuttal Schedule C-2 Page 3 Witness: Bourassa

Line			
No.			
1	Adjust Property Taxes to Reflect Proposed Revenues:		
2		_	
3	Adjusted Revenues in year ended 09/30/2008	\$	6,356,374
4	Adjusted Revenues in year ended 09/30/2008		6,356,374
5	Proposed Revenues		11,132,993
6	Average of three year's of revenue	\$	7,948,580
7	Average of three year's of revenue, times 2	\$	15,897,161
8	Add:		
9	Construction Work in Progess at 10%	\$	39,301
10	Deduct:		
11	Book Value of Transportation Equipment		15,573
12			
13	Fuli Cash Value	\$	15,881,588
14	Assessment Ratio		21%
15	Assessed Value		3,335,133
16	Property Tax Rate		9.5187%
17			
18	Property Tax		317,463
19	Plus: Tax on Parcels		16,302
20			
21	Total Property Tax at Proposed Rates	\$	333,764
22	Property Taxes recorded during the test year		336,629
23	Change in property taxes	\$	(2,865)
24	- manage on Property of		
25			
26	Adjustment to Revenues and/or Expenses	\$	(2,865)
	Adjustment to Herender Substitute and Substitute an		
27			
28			

Exhibit Rebuttal Schedule C-2 Page 4 Witness: Bourassa

	, 16,000		
Line <u>No.</u>			
1	Cntractual Services - Aerotek		
2 3	Remove Contractual Services related to Black Mountain Sewer Company	\$	(42,200)
4			
5 6			(40, 200)
7 8	Increase(decrease) in Contractual Services	3	(42,200)
9			
10 11	Adjustment to Revenue and/or Expense	\$	(42,200)
12			
13 14			
15			
16 17	See Testimony		
18 19			
20			

18 19 20 Exhibit Rebuttal Schedule C-2 Page 5 Witness: Bourassa

Line			
<u>No.</u>			
1	Miscellaneous Expense		
2	**		
3		_	(10.1)
4	Beverages expenses included in Miscellaneous expense	\$	(494)
5			
6			
7			(40.4)
8	Increase(decrease) in Miscellaneous Expense	\$	(494)
9			
10		_	
11	Adjustment to Revenue and/or Expense	\$	(494)
12			
13	SUPPORTING SCHEDULES		
14	Staff Schedule JMM-VVw16 Adjustment #4		
15			
16			
17			

Exhibit Rebuttal Schedule C-2 Page 6 Witness: Bourassa

Line <u>No.</u> 1 2	Bad Debt Expense		
3		\$	22,098
4	Normalized Bad Debt Expense	Ψ	22,090
5 6	Bad Debt Expense per Direct		43,889
7	Bud Book Exponed por Bridge		
8		_	
9	Increase(decrease) in Bad Debt Expense	\$	(21,791)
10			
11	A. S. A. D. Grande and Jan Timones	8	(21,791)
12	Adjustment to Revenue and/or Expense		(21,701)
13			
14	ALIZZA ORIERUI EO		
15	SUPPORTING SCHEDULES		
16	Staff Schedule JMM-W17 Adjustment #5		
17			
18			
19 20			
20			

Exhibit Rebuttal Schedule C-2 Page 7 Witness: Bourassa

Line			
<u>No.</u>			
1	Capitalized Expenses and Decommissioning Costs		
2			
3			
4	Dear Ferrand Cate (forms)	\$	(3,725)
5	354 - Structures and Improvements - Dean Fence and Gate (fence)	Ψ	(5,004)
6	355 - Power Generation Equipment - Loftin Equipment Co. (generator duct)		(1,530)
7	371 - Pumping Equipment - Precision Electric (install rebuilt pump)		(4,864)
8	371 - Pumping Equipment - Precision Electric (new reinforced strainer baskets)		(1,450)
9	389 - Other Plant and Misc. Equip Keogh Engineering (odor monitor site plant and pole mnt)		(550)
10	389 - Other Plant and Misc. Equip Keogh Engineering (odor monitor legal descr. & map)		, ,
11	389 - Other Plant and Misc. Equip Keogh Engineering (filter system repair)		(8,054)
12	389 - Other Plant and Misc. Equip Keogh Engineering (work on UV system)		(525)
13	354 - Structures and Improvements - Yahweh Contracting LLC (Lift station removal/retirement)		(8,003)
14	Total Capitalized Expenses	\$	(33,705)
15			(00.705)
16	Increase(decrease) in Contractual Services - Other	\$	(33,705)
17			
18		_	
19	Adjustment to Revenue and/or Expense	\$	(33,705)
20			
21			
22	SUPPORTING SCHEDULE		
23	Rebuttal B-2, page 3.3		
24	Rebuttal B-2, page 4.3		
25	71000mm = 4, p=g= ···		
20			

Exhibit Rebuttal Schedule C-2 Page 8 Witness: Bourassa

Line			
No.			
1	Remove Expenses Included in Rate Case Expense		
2		_	(4.55)
3	Bourassa, CPA Inv. # 1000002402	\$	(155)
4	Bourassa, CPA Inv. # 1000002413		(981)
5			(1,136)
6			
7		_	(4.400)
8	Increase(decrease) in Regulatory Commission Expense	\$	(1,136)
9			
10		_	(4.400)
11	Adjustment to Revenue and/or Expense	\$	(1,136)
12			

Exhibit Rebuttal Schedule C-2 Page 9 Witness: Bourassa

Line				
<u>No.</u>				
1				
2	Remove Unncessary Expe	ense		
3			•	(0.400)
4	Meals and Entertainment	Exp cost for the DBack game	\$	(6,400)
5	Meals and Entertainment	BALANCE DUE FOR 2008 XMAS PART		(953)
6	Meals and Entertainment			(495)
7	Meals and Entertainment	For Holiday Party Dec. 2008		(4,959)
8	Meals and Entertainment	Catered Lunch	<u></u>	(412)
9	Total		\$	(13,219)
10				
11	Wastewater Divison 4-factor	or allocation %		23.66%
12				
13	Increase (decrease) in Cor	ntractual Services - Other	\$	(3,128)
14				
15				
16	Adjustment to Revenue an	d/or Expense	\$	(3,128)
17				
18				
19				
20				

Exhibit Rebuttal Schedule C-2 Page 10 Witness: Bourassa

Cental Office Costs - Infrastructure Allocation	ructure Allocation							
					Utility	Utility		
					Infrastructur	Infrastructure	LPSCo	
	Actual			Rejoinder	Group	Group	Allocation	Rejoinder
	Total			Total	Allocation	Allocated	by Custome	LPSCo
	Cost Pool	<u>Adjustments</u>		Cost Pool	%	Cost Pool	Count	Allocation
Audit	\$ 984,476		₩	984,476	26.98% \$	3 265,652	25.83%	68,618
Tax Services	383,940		↔	383,940	26.98%	103,603	25.83%	26,761
Legal	722,428		↔	722,428	26.98%	194,941	25.83%	50,353
Other Professional Services	448,761		↔	448,761	26.98%	121,094	25.83%	31,279
Management Fee - Total	636,255		₩	636,255	26.98%	171,688	25.83%	44,347
Unit Holder Communication	277,582		↔	277,582	26.98%	74,903	25.83%	19,347
Trustee Fees	225,052		69	225,052	26.98%	60,728	25.83%	15,686
Escrow & Transfer Agent Fe	63,843		₩	63,843	26.98%	17,227	25.83%	4,450
Rent	295,887		69	295,887	26.98%	79,843	25.83%	20,623
Licenses/Fees & Permits	128,206	(145,642)	↔	(17,436)	26.98%	4,705	25.83%	(1,215)
Office Expenses	761,628	(46,186)	↔	715,442	26.98%	193,056	25.83%	49,866
Depreciation	194,727		↔	194,727	26.98%	52,545	25.83%	13,572
Total (Candadian dollars (\$	\$ 5,122,785	\$ (191,828)	s	4,930,957		\$ 1,330,576	100	343,688
Factor	1.00	1.00		1.00		1.00		1.00
Total (US dollars USD)	\$ 5,122,785	\$ (191,828)	₩	4,930,957		\$ 1,330,576		\$ 343,688
Infrastructure Cost Allocation per Direct (USD) ²	per Direct (USD) ²						**	\$ 191,850
Increase (decrease) in Infrastructure Allocated Costs (USD)	tructure Allocated C	tosts (USD)					•	\$ 151,838
Adjustment to Revenues and/or Expenses	/or Expenses							\$ 151,838
¹ Per Response to JMM 5.5								
² Per Response to JMM 1.67								

Exhibit Rebuttal Schedule C-2 Page 11 Witness: Bourassa

Line <u>No.</u> 1 2 3	Interest Sy	nchro	oniz <u>ation</u>				
4	Fair Value	Rate	Base		\$ 28,034,885		
5	Weighted (Cost	of Debt		1.14%		
6	Interest Ex					\$	320,256
7	·						
8	Test Year I	ntere	st Expense			\$	322,703
9							
10	Increase (d	ecre	ase) in Interest	Expense			(2,446)
11							
12							
13			.,	_		•	0.446
14	Adjustment	to R	evenue and/or	Expense	:	\$	2,446
15							
16							
17	Weighted Cos	t of De	bt Computation				Vojebtod
18				Dansant	04	V	Veighted
19			Amount	Percent 47.000/	Cost		Cost
20	Debt	\$	11,506,844	17.86%	6.39%		1.14%
21	Equity	\$	52,906,962	82.14%	12.00%		9.86%
22	Total	\$	64,413,805	100.00%			11.00%
23							
24							

Exhibit Rebuttal Schedule C-2 Page 12 Witness: Bourassa

	Adjustment Number 11	V VILLIC	.33. Dodia334
Line			
<u>No.</u>			
1	Income Tax Computation		
2		Test Year	Adjusted
3		Adjusted	with Rate
4		Results	Increase
5		Results	Increase
6		¢ (275.754)	\$ 4,500,864
7	Taxable Income before adjustments	\$ (275,754)	\$ 4,500,004
8	Adjustments to Taxable Income	\$ (275,754)	\$ 4,500,864
9	Taxable Income	\$ (2/3,/34)	\$ 4,500,004
10			
11			
12		# (275.754)	¢ 4500.964
13	Income Before Taxes	<u>\$ (275,754)</u>	\$ 4,500,864
14			A 500 864
15	Arizona Income Before Taxes		\$ 4,500,864
16			A 242.620
17	Less Arizona Income Tax		\$ 313,620
18	Rate = 6.97%		A 407 044
19	Arizona Taxable Income		\$ 4,187,244
20			\$ 313,620
21	Arizona Income Taxes		\$ 313,620
22			\$ 4,500,864
23	Federal Income Before Taxes		\$ 4,500,604
24	_		\$ 313,620
25	Less Arizona Income Taxes		\$ 313,020
26			\$ 4,187,244
27	Federal Taxable Income		Ψ,107,244
28			
29			
30			
31	FEDERAL INCOME TAXES:		\$ 7,500
32	15% BRACKET		\$ 7,500 \$ 6,250
33	25% BRACKET		\$ 8,500 Federal
34	34% BRACKET		\$ 91,650 Effective
35	39% BRACKET		\$ 1,309,763 Tax
36	34% BRACKET		Rate
37	Tours		\$ 1,423,663 31.63%
38	Federal Income Taxes		1,420,000
39			
40	- · · · · -		\$ 1,737,283
41	Total Income Tax		\$ 1,737,200
42			38.60%
43	Overall Tax Rate		38.0076
44		(100 100)	
45	Income Tax at Proposed Rates Effective Rate	→ \$ (106,438)	
46			

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Computation of Gross Revenue Conversion Factor

Exhibit Rebuttal Schedule C-3 Page 1 Witness: Bourassa

		Percentage of Incremental
Line		Gross
<u>No.</u>	Description	Revenues
1	Federal Income Taxes	31.63%
2		
3	State Income Taxes	6.97%
4		0.000/
5	Other Taxes and Expenses	0.00%
6		
7		28 60%
8	Total Tax Percentage	38.60%
9	O (i I O) AOON Tou Descendence	61.40%
10	Operating Income % = 100% - Tax Percentage	01.40%
11		
12 13		
14		
15	1 ≈ Gross Revenue Conversion Factor	
16	Operating Income %	1.6286
17	operating moonie 70	
18	SUPPORTING SCHEDULES:	RECAP SCHEDULES:
19		Rebuttal A-1
20		

Litchfield Park Service Company - Wastewater Division
Revenue Summary
With Annualized Revenues to Year End Number of Customers
Test Year Ended September 30, 2008

Exhibit Rebuttal Schedule H-1 Page 1 Witness: Bourassa

Line			Present		Proposed		Dollar	Percent	Percent of Present Sewer	Percent of Proposed Sewer
<u>No.</u>	<u>Customer Classification</u>		Revenues		Revenues		<u>Change</u>	<u>Change</u>	Revenues	Revenues
1	Residential	\$	4,647,120	\$		\$	3,589,559	77.24%	73.99%	74.47%
2	Residential HOA 135		44,064		78,100		34,036	77.24%	0.70%	0.71%
3	Residential HOA 160		52,224		92,563		40,339	77.24%	0.83%	0.84%
4	Residential HOA 520		169,728	_	300,830		131,102	77.24%	2.70%	2.72%
5	Subtotal	\$	4,913,136	\$	8,708,172	\$	3,795,036	77.24%	78.23%	78.73%
6										
7	Multi-Unit Housing								0.400/	0.400/
8	Multi-Unit 3		9,923		17,591		7,667	77.27%	0.16%	0.16%
9	Multi-Unit 5		3,156		5,595		2,439	77.27%	0.05%	0.05%
10	Multi-Unit 6		1,818		3,223		1,405	77.27%	0.03%	0.03%
11	Multi-Unit 7		8,484		15,039		6,555	77.27%	0.14%	0.14%
12	Multi-Unit 8		73,124		129,625		56,501	77.27%	1.16%	1.17%
13	Multi-Unit 9		2,727		4,834		2,107	77.27%	0.04%	0.04%
14	Multi-Unit 14		46,662		82,716		36,054	7 7.27%	0.74%	0.75%
15	Multi-Unit 16		116,352		206,254		89,902	77.27%	1.85%	1.86%
16	Multi-Unit 17		5,151		9,131		3,980	77.27%	0.08%	0.08%
17	Multi-Unit 18		5,454		9,668		4,214	77.27%	0.09%	0.09%
18	Multi-Unit 24		7,272		12,891		5,619	77.27%	0.12%	0.12%
19	Multi-Unit 46		13,938		24,708		10,770	7 7.27%	0.22%	0.22%
20	Multi-Unit 84		25,452		45,118		19,666	77.27%	0.41%	0.41%
21	Multi-Unit 90		27,270		48,341		21,071	77.27%	0.43%	0.44%
22	Multi-Unit 132		79,992		141,800		61,808	77.27%	1.27%	1.28%
23	Multi-Unit 304		92,112		163,284		71,172	7 7.27%	1.47%	1.48%
24	Wall Sill 55 /		52,2		,		,			
25	Subtotal	\$	518,888	\$	919,818	\$	400,931	77.27%	8.26%	8.32%
26	Cubiciai	•	3.0,000	*	0.10,0.10	•	,			
27	Small Commercial	\$	84,318	\$	149,463		65,145	77.26%	1.34%	1.35%
28	Measured Service:	•	01,010	•	,		00,770			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
29	Regular Domestic	\$	256,547	\$	454,904		198,357	77.32%	4.08%	4.11%
30	Restaurant, Motels, Grocery, Dry Cleaning	Ψ	222,936	۳	395,322		172,386	77.33%	3.55%	3.57%
31	Subtotal	\$	479,482	\$	850,226	\$	370,744	77.32%	7.63%	7.69%
32	Subiolai	Ψ	475,402	Ψ	030,220	Ψ	370,744	77.52 70	7.0070	7.0070
33	Minus Boom Dar Doom	\$	103.929	œ	184,232	œ	80,303	77.27%	1.65%	1.67%
	Wigwam Resort - Per Room	Ψ	12,000	Ψ	21,270	Ψ	9,270	77.25%	0.19%	0.19%
34	Wigwam Resort - Main	\$		\$	205,502	•	89,573	77.27%	1.85%	1.86%
35	Subtotal	Ф	115,929	Ф	205,502	Φ	09,373	11.2170	1.05 /6	1.00 /6
36		•	00.040	•	57.054	æ	05.044	77.050/	0.500/	0.500/
37	Elementary Schools	\$	32,640	Þ	57,854	Ф	25,214	77.25%	0.52%	0.52%
38	Middle and High Schools		28,800		51,048		22,248	77.25%	0.46%	0.46%
39	Community College		14,880	_	26,375		11,495	77.25%	0.24%	0.24%
40	Subtotal	\$	76,320	\$	135,277	\$	58,957	77.25%	1.22%	1.22%
41										
42	Effluent Sales		92,268		92,268			0.00%	1.47%	0.83%
43	Total Revenues Before Revenues Annualization	\$	6,280,340	\$	11,060,726	\$	4,780,386	76.12%	197.19%	197.81%

Litchfield Park Service Company - Wastewater Division
Revenue Summary
With Annualized Revenues to Year End Number of Customers
Test Year Ended September 30, 2008

Exhibit Rebuttal Schedule H-1 Page 2 Witness: Bourassa

Line <u>No.</u> 1	Customer Classification	Present <u>Revenues</u>	Proposed Revenues	Dollar <u>Change</u>	Percent Change	Percent of Present Sewer Revenues	Percent of Proposed Sewer Revenues
2	Revenue Annualization						
3	Residential	(36,394)	(64,505)	(28,111)	77.24%	-0.58%	-0.58%
4	Multi-Unit Housing - Mulit-Unit 8	2,020	3,581	Ì,561	77.27%	0.03%	0.03%
5	Small Commercial	138	245	107	77.26%	0.00%	0.00%
6	Measured Service:						
. 7	Regular Domestic	21,275	37,725	16,449	77.32%	0.34%	0.34%
8	Restaurant, Motels, Grocery, Dry Cleaning	11,357	20,139	8,782	77.33%	0.18%	0.18%
9	Effluent Sales	(25,908)	(25,908)		0.00%	-0.41%	-0.23%
10	Subtotal Revenue Annualization	(27,512)	(28,724)	(1,213)	4.41%	-0.44%	-0.26%
11							
12	Misc Service Revenues						
13	Misc Revenues	99,755	99,755	-	0.00%	1.59%	0.90%
14	Reconciling Amount to C-1	3,791	1,236	(2,555)	-67.40%	0.06%	0.01%
15	Totals	6,356,375	11,132,992	4,776,618	75.15%	197.25%	197.83%
16	•						
17	Revenue Reconciliation						
18	Recorded Revenues	\$	99,755				
19	Amount per Bill Count Before Rev. Annualization		6,380,095				
20	Difference	\$					
21	Tolerance (+/- 1/2 percent)	\$					
22	Acceptable		No				
23							
24							
25							
26							
27							
28							
29							
30							

Litchfield Park Service Company - Wastewater Division Test Year Ended September 30, 2008 Analysis of Revenue by Detailed Class Special Rate Commercial Customers Pay Standard Commerical Rate

Rebuttal Schedule H-2 Page 1 Witness: Bourassa

Average

		Average					
		Number of					
		Customers		<u>Avera</u>		Proposed I	
Line	Customer	at	Average	Present	Proposed	Dollar	Percent
No.	<u>Classification</u>	9/30/2008	Water Use	Rates	<u>Rates</u>	<u>Amount</u>	<u>Amount</u>
1	Residential	14,126	N/A	\$ 27.20	\$ 48.21	\$ 21.01	77.243%
2	Residential HOA 135	1	N/A	3,672.00	6,508.35	2,836.35	77.243%
3	Residential HOA 160	1	N/A	4,352.00	7,713.60	3,361.60	77.243%
4	Residential HOA 520	1	N/A	14,144.00	25,069.20	10,925.20	77.243%
5							
6	Multi-Unit Housing						
7	Multi-Unit 3	11	N/A	75.75	134.28	58.53	77.267%
8	Multi-Unit 5	2	N/A	126.25	223.80	97.55	77.267%
9	Multi-Unit 6	1	N/A	151.50	268.56	117.06	77.267%
10	Multi-Unit 7	4	N/A	176.75	313.32	136.57	77.267%
11	Multi-Unit 8	30	N/A	202.00	358.08	156.08	77.267%
12	Multi-Unit 9	1	N/A	227.25	402.84	175.59	77.267%
13	Multi-Unit 14	11	N/A	353.50	626.64	273.14	77.267%
14	Multi-Unit 16	24	N/A	404.00	716.16	312.16	77.267%
15	Multi-Unit 17	1	N/A	429.25	760.92	331.67	77.267%
16	Multi-Unit 18	1	N/A	454.50	805.68	351.18	77.267%
17	Multi-Unit 24	1	N/A	606.00	1,074.24	468.24	77.267%
18	Multi-Unit 46	1	N/A	1,161.50	2,058.96	897.46	77.267%
19	Multi-Unit 84	1	N/A	2,121.00	3,759.84	1,638.84	77.267%
20	Multi-Unit 90	1	N/A	2,272.50	4,028.40	1,755.90	77.267%
21	Multi-Unit 132	2	N/A	3,333.00	5,908.32	2,575.32	77.267%
22	Multi-Unit 304	1	N/A	7,676.00	13,607.04	5,931.04	77.267%
23	man om oo	•		,,=	,		
24	Small Commercial	153	N/A	46.00	81.54	35.54	77.261%
25	Measured Service:	,,,,	****				
26	Regular Domestic	138	57,450	155,01	274.87	119.85	77.318%
27	Restaurant, Motels, Grocery, Dry Cleaning	62	91,567	300.45	532.78	232.33	77.326%
28	Restaurant, Moters, Grocery, Bry Occaring	02	51,001	000.70	002.70		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
29	Wigwam Resort - Per Room	1	N/A	8,660.75	15,352.68	6,691,93	77.267%
30	Wigwam Resort - Main	1	N/A	1,000.00	1,772.50	772.50	77.250%
31	viigwaiii Nesoit - Maiii	•	14// 1	1,000.00	7,712.00	., 2.00	77.20070
32	Elementary Schools	4	N/A	680	1,205	525.30	77.250%
33	Middle and High Schools	3	N/A	800	1,418	618.00	77.250%
33 34	Community College	1	N/A	1,240	2,198	957.90	77.250%
3 4 35	Community Conege	r	19/7	1,240	2,190	331.30	77.25076
36	Effluent Sales (\$55 per acre foot)	4	5,939,470	1,003	1,003	_	0.000%
36 37	Effluent Sales (\$100 per acre foot)	0	2,856,100	877	877		0.000%
		1	3,383,491	2,336	2,336	-	0.000%
38 39	Effluent Sales (\$225 per acre foot)	14,589	3,303,491	2,330	2,330	-	0.00076
	Total =	14,569					
40							
41							

Litchfield Park Service Company - Wastewater Division Present and Proposed Rates Test Year Ended September 30, 2008

Exhibit Rebuttal Schedule H-3 Page 1 Witness: Bourassa

		Present	F	Proposed	Percent	
Customer Classification		Rates		Rates	<u>Change</u>	
Monthly Charge for:						
•	\$	27.20	\$	48.21	77.24%	
Multi-Unit Housing - Monthly per Unit	\$	25.25	\$	44.76	77.27%	
· · ·						
Commercial:						
Small Commercial - Monthly Service	\$	46.00	\$	81.54	77.26%	
Measured Service:						
Regular Domestic:						
Monthly Service Charge	\$				77.24%	
Rate Per 1,000 Gallons of Water	\$	2.25	\$	3.99	77.33%	
Restaurant, Motels, Grocery Stores & Dry Cleaning Estab.1						
Monthly Service Charge					77.24%	
Rate Per 1,000 Gallons of Water	\$	3.00	\$	5.32	77.33%	
Wigwam Resort:	_		_		77 070 /	
Monthly Rate - Per Unit					77.27%	
Main Building - Per Month	\$	1,000.00	\$	1,772.50	77.25%	
·		000.00	•	4 005 30	77.25%	
•					77.25% 77.25%	
					77.25% 77.25%	
•				•	77.25% 77.25%	
Community College	Ф	1,240.00	Ф	2, 197.90	11.25/6	
					0.000/	
Effluent ²	Ma	arket	M	arket	0.00%	
	Commercial: Small Commercial - Monthly Service Measured Service: Regular Domestic: Monthly Service Charge Rate Per 1,000 Gallons of Water Restaurant, Motels, Grocery Stores & Dry Cleaning Estab. Monthly Service Charge Rate Per 1,000 Gallons of Water Wigwam Resort:	Monthly Charge for: Monthly Residential Service Multi-Unit Housing - Monthly per Unit Commercial: Small Commercial - Monthly Service Measured Service: Regular Domestic: Monthly Service Charge Rate Per 1,000 Gallons of Water Restaurant, Motels, Grocery Stores & Dry Cleaning Estab.¹ Monthly Service Charge Rate Per 1,000 Gallons of Water Restaurant, Motels, Grocery Stores & Dry Cleaning Estab.¹ Wigwam Resort: Monthly Rate - Per Unit Main Building - Per Month Schools - Monthly Service Rates: Elementary Schools Middile Schools High Schools Community College \$	Monthly Charge for: Monthly Residential Service Multi-Unit Housing - Monthly per Unit \$ 25.25 Commercial: Small Commercial - Monthly Service Measured Service: Regular Domestic: Monthly Service Charge Rate Per 1,000 Gallons of Water Restaurant, Motels, Grocery Stores & Dry Cleaning Estab. Monthly Service Charge Rate Per 1,000 Gallons of Water Restaurant, Motels, Grocery Stores & Dry Cleaning Estab. Monthly Service Charge Rate Per 1,000 Gallons of Water \$ 25.75 Rate Per 1,000 Gallons of Water \$ 25.25 Monthly Rate - Per Unit Monthly Rate - Per Unit Main Building - Per Month \$ 25.25 Main Building - Per Month \$ 26.00 Schools - Monthly Service Rates: Elementary Schools Middile Schools Middile Schools Service	Customer Classification Rates Monthly Charge for: * 27.20 \$ Monthly Residential Service \$ 27.20 \$ Multi-Unit Housing - Monthly per Unit \$ 25.25 \$ Commercial: * 46.00 \$ Small Commercial - Monthly Service * 46.00 \$ Measured Service: * 25.75 \$ Regular Domestic: * 25.75 \$ Monthly Service Charge \$ 25.75 \$ Restaurant, Motels, Grocery Stores & Dry Cleaning Estab.¹ * 25.75 \$ Monthly Service Charge * 25.75 \$ Rate Per 1,000 Gallons of Water * 3.00 \$ Wigwam Resort: * 25.25 \$ Monthly Rate - Per Unit * 25.25 \$ Main Building - Per Month * 1,000.00 * Schools - Monthly Service Rates: * Elementary Schools * 800.00 * Middle Schools * 800.00 * Middle Schools * 800.00 * Middle Schools * 800.00 *	Customer Classification Rates Rates Monthly Charge for: Monthly Residential Service \$ 27.20 \$ 48.21 Multi-Unit Housing - Monthly per Unit \$ 25.25 \$ 44.76 Commercial: \$ 25.25 \$ 44.76 Small Commercial - Monthly Service \$ 46.00 \$ 81.54 Measured Service: * 25.75 \$ 45.64 Regular Domestic: * 2.25 \$ 3.99 Restaurant, Motels, Grocery Stores & Dry Cleaning Estab.¹ * 25.75 \$ 45.64 Rate Per 1,000 Gallons of Water \$ 3.00 \$ 5.32 Wigwam Resort: * 25.25 \$ 44.76 Monthly Rate - Per Unit * 25.25 * 44.76 Main Building - Per Month * 1,000.00 * 1,772.50 Schools - Monthly Service Rates: * 680.00 * 1,418.00 Elementary Schools * 800.00 * 1,418.00 Middle Schools * 800.00 * 1,418.00 High Schools * 800.00 * 1,418.00 Community College * 1,240.00 * 2,197.90	

¹ Motels without restuarants charged multi-unit monthly rate. 32

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² Market Rate - Maximum effluent rate shall not exceed \$430 per acre foot based on a potable water rate of \$1.32 per thousand gallons.

Litchfield Park Service Company - Wastewater Division

Changes in Representative Rate Schedules Test Year Ended September 30, 2008

Exhibit Rebuttal Schedule H-3 Page 2 Witness: Bourassa

Line		Ρ	resent		oposed
No.	Other Service Charges	<u> </u>	<u>Rates</u>	_	<u>Rates</u>
1	Establishment (Regular Hours) per Rule R14-2-603D (a)	\$	20.00	•	20.00
2	Establishment (After Hours) per Rule R14-2-603D (a)	\$	40.00	\$	40.00
3	Re-Establishment of Service per Rule R14-2-603D (a)		(b)		(b)
4	Reconnection (Regular Hours) per Rule R14-2-603D (a)	\$	50.00	\$	50.00
5	Reconnection (After Hours) per Rule R14-2-603D (a)	\$	65.00	\$	65.00
6	NSF Check, per Rule R14-2-608E (a)	\$	20.00	\$	20.00
7	Deferred Payment, Per Month	1	.50%	1	.50%
8	Late Charge		(c)		(c)
9	Service Calls - Per Hour/After Hours(d)	\$	40.00	\$	40.00
10	Deposit Requirement		(e)		(e)
11	Deposit Interest	3	5.50%	3	.50%
12	Service Lateral Connection Charge- All Sizes		(f)		(f)
13	Main Extension Tariff, per Rule R14-2-606B		(g)		(g)

14 15 16

- 17 (a) Service charges for customers taking both water and sewer service are not duplicative.
- 18 (b) Minimum charge times number of full months off the system. per Rule R14-2-603D.
- 19 (c) Per Rule R14-2-608F. Greater of \$5.00 or 1.5% of unpaid balance.
- 20 (d) No charge for service calls during normal working hours.
- 21 (e) Per ACC Rules R14-2-603B Residential two times the average bill. 22

Non-residential - two and one-half times the average bill.

- (f) At cost. Customer/Developer shall install or cuase to be installed all Service Laterals as a 23 non-refundable contribution-in-aid of construction...
 - (g) All Main Extensions shall be completed at cost and shall be treated as non-refundable contribution-in-aid of construction.

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29 IN ADDITION TO THE COLLECTION OF REGULAR RATES, THE UTILITY WILL COLLECT FROM ITS CUSTOMERS A PROPORTIONATE SHARE OF ANY PRIVILEGE, SALES, USE, AND FRANCHISE TAX. PER COMMISSION RULE 14-2-608D(5).

32 33 34

1		
1	FENNEMORE CRAIG, P.C.	
2	Jay L. Shapiro (No. 014650) Todd C. Wiley (No. No. 015358) 3003 N. Central Ave.	
3	3003 N. Central Ave. Suite 2600	
4	Phoenix, Arizona 85012 Attorneys for Litchfield Park Service Company	
5		
6	BEFORE THE ARIZONA CORI	PORATION COMMISSION
7	DEI ORE THE MAZONA COR	
	IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE	DOCKET NO: SW-01428A-09-0103
8	COMPANY, AN ARIZONA	
9	CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE	
10	OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN ITS	
11	WASTEWATER RATES AND CHARGES FOR UTILITY SERVICE BASED	
12	THEREON.	
13	IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE	DOCKET NO: W-01427A-09-0104
14	COMPANY, AN ARIZONA	
15	CORPORATION, FOR A DETERMINATION OF THE FAIR VALUE	
16	OF ITS UTILITY PLANTS AND PROPERTY AND FOR INCREASES IN ITS	
17	WATER RATES AND CHARGES FOR UTILITY SERVICE BASED THEREON.	
18	IN THE MATTER OF THE APPLICATION	DOCKET NO. W-01427A-09-0116
19	OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA	
20	CORPORATION, FOR AUTHORITY (1) TO ISSUE EVIDENCE OF INDEBTEDNESS IN	
21	AN AMOUNT NOT TO EXCEED \$1,755,000 IN CONNECTION WITH (A) THE	
22	CONSTRUCTION OF TWO RECHARGE	
	WELL INFRASTRUCTURE IMPROVEMENTS AND (2) TO	
23	ENCUMBER ITS REAL PROPERTY AND PLANT AS SECURITY FOR SUCH	
24	INDEBTEDNESS.	
25		
26		

FENNEMORE CRAIG A Professional Corporation Phoenix

1	IN THE MATTER OF THE APPLICATION DOCKET NO. W-01427A-09-0120
2	OF LITCHFIELD PARK SERVICE COMPANY, AN ARIZONA
3	COMPANY, AN ARIZONA CORPORATION, FOR AUTHORITY (1) TO ISSUE EVIDENCE OF INDEBTEDNESS IN AN AMOUNT NOT TO EXCEED \$1,170,000 IN CONNECTION WITH (A) THE
4	AN AMOUNT NOT TO EXCEED \$1,170,000 IN CONNECTION WITH (A) THE
5	MOUNTED SOLAR GENERATOR
6	INFRASTRUCTURE IMPROVEMENTS AND (2) TO ENCUMBER ITS REAL
7	PROPÈRTY AND PLANT AS SECURITY FOR SUCH INDEBTEDNESS.
8	
9	
10	REBUTTAL TESTIMONY
11	of
12	THOMAS J. BOURASSA
13	on .
14	COST OF CAPITAL
15	(Phase 1 – Determination of Rate Base and Rates)
16	December 2, 2009
17	December 2, 2009
18	
19	
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FENNEMORE CRAIG A PROFESSIONAL CORPORATION PHOENIX

1			TABLE OF CONTENTS
2			
3	I.	INTR	ODUCTION1
4	II.		MARY OF REBUTTAL TESTIMONY AND THE PROPOSED OF CAPITAL FOR THE COMPANY1
5		A.	Summary of Company's Rebuttal Recommendation 1
6	·	B.	Updates to Direct Testimony
7		C.	Summary of the Recommendations of Staff and RUCO 4
8	II.	RESE	ONSE TO STAFF'S COST OF CAPITAL ANALYSIS5
9		A.	Staff's Financial Risk Adjustment5
10		B.	Response to Staff' Criticisms of LPSCO Cost of Capital Analysis 10
11	III.	RESF	PONSE TO RUCO'S COST OF CAPITAL ANALYSIS15
12		A.	Use of Gas Utilities to Develop Cost of Equity
13	Ε	B.	Criticisms of RUCO's Implementation of the CAPM
14 15			
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FENNEMORE CRAIG A Professional Corporation Phoenix

1	I.	INTRODUCTION
2	Q.	PLEASE STATE YOUR NAME AND ADDRESS.
3	A.	My name is Thomas J. Bourassa. My business address is 139 W. Wood Drive,
4		Phoenix, Arizona 85029.
5	Q.	ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS CASE?
6	A.	On behalf of the applicant, Litchfield Park Service Company ("LPSCO" or the
7		"Company").
8	Q.	ARE YOU THE SAME THOMAS J. BOURASSA THAT FILED DIRECT
9		TESTIMONY ON RATE BASE, INCOME STATEMENT, REVENUE
10		REQUIREMENT AND RATE DESIGN IN THIS DOCKET?
11	A.	Yes, and all of my background information and testimony regarding my
12		qualifications is contained in that portion of my direct testimony.
13	Q.	DID YOU ALSO PREPARE DIRECT TESTIMONY ON THE COST OF
14		CAPITAL ON BEHALF OF LPSCO IN THIS CASE?
15	A.	Yes, I also provided direct testimony on the cost of capital, including the cost of
16		equity, in this case.
17	II.	SUMMARY OF REBUTTAL TESTIMONY AND THE PROPOSED COST
18		OF CAPITAL FOR THE COMPANY
19		A. <u>Summary of Company's Rebuttal Recommendation.</u>
20	Q.	WHAT IS THE PURPOSE OF THIS REBUTTAL TESTIMONY?
21	A.	In this portion of my rebuttal testimony I will provide updates of my cost of capital
22		analysis and recommended rate of return using more recent financial data. I also
23		will respond as appropriate to the direct testimonies of Mr. Manrique on behalf of
24		Staff and the direct testimony of Mr. William A. Rigsby on behalf of RUCO.
25		

Q. PLEASE SUMMARIZE YOUR UPDATED COST OF CAPITAL ANALYSIS.

A. Since the Company's direct filing, the cost of equity has increased substantially, as indicated by the Discounted Cash Flow ("DCF") model and the Capital Asset Pricing Model ("CAPM"). The table below summarizes the results of my updated analysis using those models:

	Range	<u>Midpoint</u>
DCF Constant Growth (earnings growth)	9.3% - 14.9%	12.1%
DCF Constant Growth (sustainable growth)	9.4% - 12.0%	10.7%
Two-Stage Growth Model	9.5% - 13.5%	11.4%
DCF Average Results	9.4% - 13.5%	11.4%
CAPM Historical Market Risk Premium		8.3%
CAPM Current Market Risk Premium		16.7%
Average CAPM Results	8.9%-16.7%	12.5%
Average Overall Results	8.9%-15.1%	12.0%

The schedules containing my updated cost of capital analysis are included with my rebuttal schedules, attached to my other rebuttal testimony. Attached to this testimony are five attachments discussed below.

I also prepared rebuttal testimony that addresses the Company's rebuttal rate base, its income statement (revenue and operating expenses), its required increase in revenue, and its rate design and proposed rates and charges for service. For the convenience of the Commission and the parties, that volume of my testimony has been filed separately in this case.

Q. PLEASE SUMMARIZE YOUR RECOMMENDED REBUTTAL COST OF DEBT AND EQUITY, AND YOUR RECOMMENDED REBUTTAL RATE OF RETURN ON RATE BASE.

¹ Value Line Selection and Opinion, October 16, 2009.

A. The Company's recommended capital structure consists of 17.9 percent debt and 82.1 percent common equity as shown on Rebuttal Schedule D-1. Based on my updated cost of capital analysis, I am recommending a cost of equity of 12.0 percent.

Based on my 12.0 percent recommended cost of equity, the Company's weighted cost of capital ("WACC") is 11.0 percent, as shown on Rebuttal Schedule D-1.

B. <u>Updates to Direct Testimony.</u>

Q. WHY IS YOUR COST OF EQUITY RECOMMENDATION LOWER IN YOU REBUTTAL THAN IN YOUR DIRECT TESTIMONY?

A. When I prepared my direct testimony in February 2009, the economy was in the midst of a severe recession and a crisis was occurring in the financial markets. The Dow Jones average had fallen by 38 percent and the S&P 500 dropped by 40 percent in just a couple of months. During this period, there was a "flight to quality" that led to the traditional spread between required returns on Treasury securities and other assets increasing as investors turned away from common stocks and corporate bonds in favor of treasuries. During the past several months, both the economy and the financial markets have improved. Economists now believe the recession has ended, but also see a long sluggish recovery. As Value Line states "the evolving business upturn may be a checkered affair, with a succession of peaks and valleys along the way...Should [the] uneven recovery unfold, the stock market might remain quite volatile."

There are several key factors that could cap the strength of economic recovery over the next few years. These include an unusually slow improvement in

labor market conditions,² only modest gains in consumer spending, tight credit and a desire by households to pare debt, a slow recovery in residential investment due to still rising home foreclosures and persistently high inventories of unsold existing homes, a further pull-back in commercial construction, limited improvement in capital spending resulting from excess capacity that exists in many sectors, and still lack of capital available to small and mid-sized businesses.³

Q. SO HOW EXACTLY HAS THE COST OF EQUITY DROPPED SINCE YOU PREPARED YOUR DIRECT TESTIMONY?

- A. My updated analysis indicates cost of equity is 12.0 percent, which is lower than the 14.1 percent indicated cost of equity in my direct testimony. My cost of equity estimates based on the discounted cash flow ("DCF") and the capital asset pricing model ("CAPM") ranged from 9.5 percent to 18.6 percent with a mid-point of 14.1 percent. Despite a 14.1 percent indicated cost of equity in my direct cost of equity analysis, my recommendation for the cost of equity was 12.5 percent.
 - C. Summary of the Recommendations of Staff and RUCO.
- Q. PLEASE SUMMARIZE THE COST OF DEBT AND EQUITY RECOMMENDED BY STAFF AND RUCO, AND THEIR RESPECTIVE RECOMMENDATIONS FOR THE RATE OF RETURN ON FAIR VALUE RATE BASE.
- A. Staff determined a cost of equity of 9.2 percent based on the average cost of equity produced by its DCF and CAPM models (10.0 percent) and an 80 basis point downward adjustment for LPSCO's lower financial risk as compared to the publicly traded water utilities in Staff's sample group.⁴ Staff did not consider any

² The unemployment rate recently jumped to 10.2%, which is higher than the unemployment rate during the 2001 recession.

³ Blue Chip Financial Forecasts, Vol. 28, No. 10, October 1, 2009.

⁴ See Direct Testimony of Juan C. Manrique ("Manrique Dt.") at 34.

of LPSCO's firm-specific risks other than financial risk. Staff is recommending a capital structure consisting of 17.2 percent debt and 82.8 percent equity.⁵ Based on a capital structure of 17.2 percent debt and 82.8 percent equity, Staff determined the WACC for LPSCO to be 8.7 percent.⁶

RUCO determined its recommended cost of equity, 8.01 percent, based on the average cost of equity of its DCF and CAPM results. RUCO is recommending a recommending a capital structure of 17.8 percent debt and 82.2 percent equity. RUCO's recommended cost of debt is 6.39 percent, based the Company's average cost of debt. Based on a capital structure of 17.8 percent debt and 82.2 percent equity, RUCO computed a WACC of 7.72 percent, which is RUCO's recommended rate of return on FVRB. RUCO also did not consider firm-specific risks other than financial risk.

II. RESPONSE TO STAFF'S COST OF CAPITAL ANALYSIS

A. Staff's Financial Risk Adjustment

Q. DID STAFF RECOMMEND A FINANCIAL RISK ADJUSTMENT?

A. Yes, and my primary criticism of Staff's financial risk adjustment is that a beta for LPSCO is required to make this adjustment, yet LPSCO does not have a beta because it is not publicly traded. Staff assumes the beta of the large publicly traded utility companies is the beta for LPSCO. I believe that LPSCO, if it were publicly traded, would have a higher beta than the sample water utility companies. ¹⁰ In Chapter 7 of Morningstar's *Ibbotson SBBI 2009 Valuation Yearbook*, for example,

⁵ *Id*.

⁶ *Id.* at 36.

⁷ See the Direct Testimony of William A. Rigsby ("Rigsby Dt.") at 7.

⁸ *Id*.

⁹ *Id*. at 8.

¹⁰ Bourassa Direct Testimony (Cost of Capital) ("Bourassa Dt.") at 37.

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Ibbotson reports that when betas are properly estimated, betas are larger for smaller companies than for larger companies. A higher beta for LPSCO would result in a much lower financial risk adjustment using the Hamada method Staff employs.

A secondary criticism is that Staff ignores the higher risk of LPSCO due to its small size relative to the sample companies. If Staff is going to make a financial risk adjustment for differences in the capital structures between Staff's water proxy group and LPSCO, it should also consider a small firm risk premium to account for firm size differences. Ibbotson finds that even after accounting for differences in beta risk, small firms require an additional risk premium over and above the added risk premium indicated by differences in beta risk.¹¹ Another reviewer also reported evidence that the stocks of small water utilities, like LPSCO, are more risky than the stocks of larger water utilities, such as those in the water utilities sample. 12 Even the California PUC conducted a study that showed smaller water utilities are more risky than larger ones. 13 Frankly, it seems to me indisputable that investors require higher returns on small company stocks as compared to large company stocks.

As a consequence of smaller firms having higher risks (after accounting for differences in beta risk), an additional small firm risk premium should be considered. In the end, differences in financial risk can be more than offset by the required small firm risk premium.

¹¹ Ibbotson SBBI 2009 Valuation Yearbook, Morningstar (Chapter 7).

¹² Thomas M. Zepp, "Utility Stocks and the Size Effect – Revisited," The Quarterly Review Economics and Finance, Vol. 43, Issue 3, Autumn 2003, 578-582.

¹³ Staff Report on Issues Related to Small Water Utilities, June 10, 1991 and CPUC Decision 92-03-093.

Q. HAVE YOU PREPARED AN ATTACHMENT SUMMARIZING YOUR ASSESSMENT OF THE ADDITIONAL RISK PREMIUMS REQUIRED FOR SMALLER FIRMS LIKE LPSCO?

A. Yes. I have included at TJB-RB-COC (Phase I) Attachment 1 the results of an *Ibbotson* study using annual data reporting the size premium based upon firm size and return data provided in Morningstar *Ibbotson SBBI 2009 Valuation Yearbook* and information contained in a published work by Dr. Thomas M. Zepp. I have estimated that a small company risk premium in the range of 99 to 181 basis points is appropriate. To be conservative, I would estimate a small company risk premium of no less than 100 basis points is warranted for LPSCO. Putting aside the fact that Staff's financial risk adjustment is too high because the beta for LPSCO would be higher than the average beta of Staff's water proxy group, the upward 100 basis point small firm risk premium would more than offset the downward 80 basis point financial risk adjustment recommended by Staff.

Q. DO INVESTORS CONSIDER THESE RISKS?

A. Of course. Contrary to Mr. Manrique's assertion that the risks due to small size and risks associated with the Arizona regulatory requirements use of historic test years and limited out of period adjustments are "unique" risks, 14 the market risk for small utilities and small utilities doing business in Arizona, like LPSCO, is important to investors, and these risks are not captured by the market data of the water utility proxy group Staff uses to estimate the cost of equity for LPSCO. Again, none of the utilities in Staff's water proxy group are of comparable size to LPSCO. In fact, LPSCO is but a small fraction of the size of the water utilities in Staff's water proxy group. Neither are any of the water utilities in Staff's water

¹⁴ Manrique Dt. at 42.

¹⁵ Bourassa Dt. at 18.

proxy group subject exclusively to Arizona regulation.¹⁶ Had Mr. Manrique used a proxy group consisting of utilities of similar size to LPSCO and primarily subject to Arizona regulation I would have no argument. But, there is no such market data available.

In summary, as I testified, the criteria established by the Supreme Court in decisions such as *Bluefield Water Works* require the use of comparable companies, i.e., companies that would be viewed by investors as having similar risks. A rational investor would not regard LPSCO has having the same level of risk as Aqua America or even Connecticut Water just because they all sell water under state regulation.¹⁷

Q. DO YOU HAVE ANY OTHER CRITICISMS OF STAFF FINANCIAL RISK ADJUSTMENT?

A. Yes. Staff uses book values in its Hamada method. This results in an overstatement of the financial risk adjustment. The Hamada method should be based on market values rather than book values.

Q. PLEASE EXPLAIN.

A. Professor Hamada developed his methodology using market values of the firm. Market values are relevant. Other authorities in the subject of finance recognize that market values of the firm are relevant when it comes to leverage and financial risk. This is logical given that Professor Hamada's formula is an extension of the

¹⁶ *Id.* at 18-19.

 $^{^{17}} Id$

¹⁸ "Effects of the Firm's Capital structure on Systematic Risk of Common Stock," *Journal of Finance*, Vol. 27 No. 2 (May 1972) 435-453.

¹⁹ Shannon, P. Pratt, Cost of Capital – Estimations and Applications, John Wiley & Sons 83-85, Roger A. Morin. New Regulatory Finance (2006) 221-25.

CAPM, which is a market-based model that does not consider book or accounting data.

Q. HAS STAFF PROVIDED ANY SUPPORT FOR USING BOOK DEBT AND EQUITY?

A. No. Staff's discussion on the subject is sparse.²⁰ It is difficult to address this subject adequately at this time without knowing Staff's rationale and authoritative support for the use of book values. I have been unable to find any authority for using book value in the Hamada formula.

Q. WHAT FINANCIAL RISK ADJUSTMENT HAVE YOU COMPUTED USING STAFF'S MODELS AND MARKET VALUES?

A. I computed a downward financial risk adjustment of 50 basis points. I used the market value of equity for the publicly traded water utilities, which I computed using their market-to-book ratios as set forth in Staff's testimony. For debt, I used the book value of debt as the market value. According to Dr. Morin, this is an appropriate assumption.²¹ To compute the market value of LPSCO's equity, I used the market value of LPSCO's equity using the average market-to-book ratio of the sample publicly traded utility companies.

Q. SO STAFF'S HAMADA ADJUSTMENT IS OVERSTATED BY AT LEAST 40 BASIS POINTS?

A. Yes, but that still does not account for the problem with using the average betas as I discussed above. LPSCO's small size compared to those sample companies taints the use of the beta in the first place, then Staff has overstated it in the second place. Under these circumstances I simply do not believe the evidence supports a financial risk adjustment in the range of 50-80 basis points.

²⁰ Manrique Dt. at 33-34.

²¹ Morin, supra at 224.

Q.

42, WHERE HE REFERENCES PRIOR COMMISSION DECISIONS THAT THE DID NOT FIND A FIRM SIZE PHENOMENON FOR REGULATED UTILITIES?

ARE YOU PERSUADED BY MR. MANRIQUE'S TESTIMONY ON PAGE

A. No. Frankly, the agency's failure to recognize a small firm risk existence despite an abundance of empirical financial evidence suggesting otherwise is another reason why it is more risky for smaller utilities to do business in Arizona. Investors do recognize the unfavorable regulatory environment here in Arizona. I know first hand because I talk to them in my work. Arizona's regulatory environment may drive investors to invest in utilities in states with more favorable regulatory environments, such as California.²² Three of the six utilities in the Staff's water proxy group are located in California, which offers a more favorable regulatory environment by using future test years and adjustor/balancing accounts in its rate-setting process. As a result, utilities in Arizona are finding it increasingly difficult to attract capital as investors invest their funds in less-risky regulatory environments.

B. Response to Staff' Criticisms of LPSCO Cost of Capital Analysis

- Q. PLEASE RESPOND TO MR. MANRIQUE'S TESTIMONY ON THE ARTICLE, "CHOICE AMONG METHODS OF ESTIMATING SHARE YIELD", BY GORDON, GORDON, AND GOULD, WHICH ARTICLE YOU REFERENCED AS SUPPORTING ESTIMATING THE DCF GROWTH RATE.
- A. Mr. Manrique characterizes the article as merely an "article that describes more generally the methods exclusively using analysts' forecasts [as] 'popular and

²² Bourassa Dt. at 15-16; see also Rebuttal Testimony of Greg Sorensen (Phase I) at 11.

attractive models'; but the article does not support the conclusion that analyst forecasts should be used alone."²³ However, the article reported on a formal study conducted by the authors which concluded:

We have compared the accuracy of four methods for estimating the growth component of the discounted cash flow yield on a share: pats growth in earnings (KEGR), past growth in dividends (KDGR, past retention growth rate (KBRG), and forecasts of growth by security analysts (KFRG)..... For our sample of utility shares, KFRG performed well, with KBRG, KDGR, and KEGR following in that order, and with KEGR a distant fourth....

Before closing, we have three observations to make. First, the superior performance by KFRG should come as no surprise. All four estimates of growth rely upon past data, but in the case of KFRG a larger body of past data is used, filtered through a group of security analysts who adjust for abnormalities that are not considered relevant for future growth... ²⁴

As I testified, to the extent that past results provide useful indications of future growth prospects, analysts' forecasts or growth would already incorporate that information.²⁵ In addition, a stock's current price reflects known historic information on that company, including its past earnings history.²⁶ If investors rely on such analysts' growth rate forecasts those are the forecasts of relevance to the determination of equity costs.

Q. PLEASE COMMENT ON MR. MANRIQUE'S TESTIMONY ON PAGE 37-38 REFERENCING PROFESSOR GORDON'S REMARKS AT THE 30TH ANNUAL FORUM OF THE SOCIETY OF UTILITY AND REGULATORY FINANCIAL ANALYSTS.

²³ Manrique Dt. at 37.

²⁴ David A. Gordon, Myron J. Gordon and Lawrence I Gould, "Choice Among Methods of Estimating Share Yield," *Journal of Portfolio Management* (Spring 1989) 50-55.

²⁵ Bourassa Dt. at 27-28.

²⁶ *Id*.

A. First, let me state that I do not know the context upon which Professor Gordon made his remarks. Further, in the quoted remarks, Professor Gordon does not say anything about past growth rates. There is no reference in the quotation as to which past growth rates (EPS, DPS, book value) should be used, if any, or what weighting past growth rates should be given when estimating the growth rate for the DCF model.²⁷ Having said that, Mr. Manrique confirms "Professor Gordon would temper the typically higher analysts' growth rates with the typically lower GNP growth rate."²⁸ I am sure Mr. Manrique would agree that I have done this in my two-stage DCF model.²⁹ The result of my two-stage DCF model indicates a cost of equity of 10.9 percent. Compare that to Staff's overall DCF results of 9.7 percent.³⁰ So, having tempered the analysts' growth rates I employ with a lower GNP, my estimate is still significantly greater than Staff's. This is the result of Staff's models being heavily weighted on low historical growth rates.

Q. DOES MR. MANRIQUE STATE THAT INVESTORS RELY ON ANALYST ESTIMATES?

A. Yes.³¹ He also states that investors rely "to some extent on past growth as well." However, he does not provide support as to what extent investors rely on past growth rates, only that they are considered. Staff's approach to estimating the growth rate gives 50 percent weight to historic growth rates. If analyst estimates already consider past growth, then Staff vastly overstates the impact of past growth rates in its growth rates. And, by utilizing past growth rates that produce extremely low results, Staff biases its DCF results downward.

²³ Staff has not provided Professor Gordon's complete remarks in their work papers.

²⁸ Manrique Dt. at 38.

²⁹ Rebuttal Schedule D.4-10.

³⁰ See Staff Schedule JCM-3.

³¹ Manrique at 38.

Q. PLEASE EXPLAIN.

A.

I have prepared two exhibits that demonstrate the unrealistically low results
produced by Staff's historical growth rates. TJB-RB-COC (Phase I) Attachment
2 and TJB-RB-COC (Phase I) Attachment 3 show the DCF results produced by
Staff's historical DPS and EPS growth rates. For example, as shown in TJB-RB-
COC (Phase I) Attachment 2, Staff's historical DPS growth rates produce
indicated costs of equity below the cost of debt for 3 of the 6 publicly traded water
utilities in Staff's water proxy group - one as low as 3.9 percent. The average
indicated cost of equity is 6.6 percent, which is nearly at the current cost of Baa
investment grade bonds at 6.3 percent and well below the expected Baa investment
grade bond cost of 7.4 percent during the period of time new rates will be in effect.
As shown in TJB-RB-COC (Phase I) Attachment 3, Staff's historical EPS
As shown in TJB-RB-COC (Phase I) Attachment 3, Staff's historical EPS growth rate produces indicated costs of equity below the cost of debt for 3 of the 6
growth rate produces indicated costs of equity below the cost of debt for 3 of the 6
growth rate produces indicated costs of equity <i>below</i> the cost of debt for 3 of the 6 publicly traded water utilities in Staff's water proxy group – one as low as 4.9
growth rate produces indicated costs of equity <i>below</i> the cost of debt for 3 of the 6 publicly traded water utilities in Staff's water proxy group – one as low as 4.9 percent. Again, the average indicated cost of equity is only 6.8 percent, not much
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Q. DO YOU HAVE OTHER COMMENTS IN RESPONSE TO MR. MANRIQUE'S TESTIMONY ON ANALYST ESTIMATES?

A. Yes. Mr. Manrique's reliance on the quote from Jeremy Siegel that dividends and not earnings are meaningful is puzzling.³² My first comment is that the DCF

Manrique Dt. at 40.

³⁴ Bourassa Dt. at 24-25.

model assumes, among other things, that a firm will have a stable dividend payout policy and a stable earned return on book value. Thus, the stock price, book value, dividends, and earnings all grow at the same rate. While it is appropriate to make such assumptions for forecasting purposes, these assumptions are frequently violated when examining historical data. As it turns out, the historical growth in the stock price, book value, dividends, and earnings for the water have not been the same. As a result, estimates of long-term growth rates should take this into account.

Second, I have not used earnings in my DCF model; I used earnings growth as a proxy for growth. It is from earnings that cash flows are generated to pay dividends. Growth in earnings provides more cash flows from which to pay dividends. As a consequence, earnings growth is a meaningful and appropriate proxy for growth in the DCF model.

Finally, I do not disagree with Professor Siegel that the price of a stock is the always equal to the present value of all future cash flows. I am sure Professor Siegel would agree that future cash flows would not only include dividends by the future selling price of the stock. The Market Price version of the DCF model measures precisely that. I described the Market Price version of the DCF model in my direct and will not repeat that testimony here.³⁴ Putting that aside, a 10 year Market Price DCF model for the sample publicly traded utility stocks would indicate a cost of equity of 12.8 percent.

³³ See Rebuttal Schedule D.4-3 and Rebuttal Schedule D.4-4.

Q. HAVE YOU PREPARED AN EXHIBIT ILLUSTRATING THE MARKET PRICE DCF FOR THE WATER UTILITY SAMPLE?

A. Yes. At TJB-RB-COC (Phase I) Attachment 4 I have included a Market Price DCF computation for the sample publicly traded water utilities using 10 year historical dividend growth and 10 year historical stock price growth. Again, the average result is 12.8 percent (12.1 percent median) which compares far more favorably to my cost of equity estimate of 12.0 percent than to Staff's cost of equity estimate of 10.0 percent.

III. RESPONSE TO RUCO'S COST OF CAPITAL ANALYSIS

A. Use of Gas Utilities to Develop Cost of Equity

- Q. HOW DOES THE SAMPLE OF WATER UTILITIES MR. RIGSBY USED TO ESTIMATE THE COST OF EQUITY COMPARE TO THE UTILITIES USED BY THE COMPANY AND STAFF?
- A. Mr. Rigsby used three publicly traded water utilities. He used the three largest water utilities out of the six water utilities that I have used and Staff typical uses when performing its cost of capital analysis.
- Q. DOES MR. RIGSBY ALSO USE SAMPLE GAS COMPANIES TO DEVELOP HIS ESTIMATE OF THE COST OF EQUITY? HOW DO THEY COMPARE TO THE SAMPLE WATER COMPANIES?
- A. Yes. He uses ten natural gas companies. However, the sample gas utilities are less risky and therefore not comparable to water utilities. His sample water companies, for example, have an average beta of 0.83, while his sample gas companies have an average beta of just 0.67.³⁵ That means that the equity cost for the water utility should be greater than the gas companies, based on their relative riskiness.

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A PROFESSIONAL CORPORATION
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³⁵ See RUCO Schedule WAR-7, page 1 of 2.

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The water utility sample has more systematic risk than the gas utility sample. Mr. Rigsby erroneously assumes that the gas utilities and water utility have the same systematic risk and are directly comparable, when they are not.

CAN THE GAS UTILITIES BE USED TO ESTIMATE LPSCO'S COST OF 0. **EQUITY?**

Yes, if the results produced by the DCF and CAPM models are adjusted upward to A. reflect the water utilities' additional risk. Mr. Rigsby, however, has made no adjustment to account for the water utilities' additional risk.

HAS THIS ISSUE EVER COME UP BEFORE? Q.

Yes. In several prior cases, water utilities presented evidence of the cost of equity A. using financial data for a similar group of publicly traded gas companies, which at that time had a higher average beta than the water utility sample. In rejecting this evidence, the Commission adopted Staff's argument that because the water utility sample had a lower average beta than the gas utility sample, the cost of equity for the water utility should be lower. For example, in Arizona Water Company's Eastern Group rate case, the water utility sample had an average beta of 0.59, while the gas utility sample had an average beta of 0.69. Staff estimated that based on the difference in the two groups' betas, the sample gas companies has an equity cost that is 100 basis points higher than the water utilities.³⁶

WHAT IS THE IMPACT OF RUCO'S USE OF THE GAS UTILITIES TO Q. ESTIMATE THE COST OF EQUITY IN THIS CASE?

By averaging the results of his equity cost estimate for the water utility sample with A. his equity cost estimate for the gas utility sample, Mr. Rigsby has depressed the For example, the average of Mr. Rigsby's CAPM cost of equity estimates.

Decision No. 66849 (March 19, 2004) at 21; see also Arizona-American Water Company Decision No. 67093 (June 30, 2004) at 27.

estimates for the water companies and gas companies are 6.71 percent and 5.88 percent, respectively. This is an 83 basis point difference.

Q. HOW WOULD AN APPROPRIATE RISK ADJUSTMENT BE CALCULATED?

A. By using the CAPM. As I explained above, the difference between the results produced by Mr. Rigsby's CAPM model is 83 basis points. Because of the method used by Mr. Rigsby to implement the CAPM, however, 83 basis points understates the required adjustment to properly reflect the gas utilities' lower investment risk. If my method and inputs are used instead, similar to the method used in the aforementioned Arizona Water Eastern Group case, the result is 140 basis points, calculated as follows:

	<u>Rf</u>		<u>Beta</u>		<u>Rp</u>		<u>K</u>
Historic MRP	2.8%	+	0.67	X	6.9%	=	7.4%
Current MRP	4.3%	+	0.67	X	15.5%	=	<u>14.7%</u>
Average Gas Utility Sample							11.1%
Average Water Utility Sample ³⁷							12.5%
Difference/Risk Adjustment							1.4%

Given this difference, it is clearly inappropriate to simply average the gas utilities' equity cost with the water utilities' equity cost, as Mr. Rigsby has done. This error assumes that a typical gas utility has the same investment risk as a typical water utility, which is simply not the case at the present time. As a result, Mr. Rigsby's use of gas utilities depresses the cost of equity for LPSCO.

³⁷ See Rebuttal Schedule D-4.13.

B. <u>Criticisms of RUCO's Implementation of the CAPM</u>

Q. WHAT OTHER CONCERNS DO YOU HAVE WITH RESPECT TO MR. RIGBY'S CAPM ANALYSIS?

A. I have four other concerns with respect to Mr. Rigsby's CAPM analysis. First, Mr. Rigsby employs a geometric average in calculating the market risk premium in his CAPM. His choice to use geometric average depresses his cost of equity estimate downward. An arithmetic average is the correct approach to use in estimating the cost of capital, as various experts have explained. In fact, the CAPM was developed on the premise of expected returns being averages and risk being measured with the standard deviation. As Dr. Morin states,

Since the latter [standard deviation] is estimated around the arithmetic average, and not the geometric average, it is logical to stay with arithmetic averages to estimate the market risk premium. In fact, annual returns are uncorrelated over time, and the objective is to estimate the market risk premium for the next year, the arithmetic average is the best unbiased estimate of the premium.³⁹

Attached at TJB-RB-COC (Phase I) Attachment 5 is an excerpt from Dr. Roger Morin's textbook on regulatory finance, which provides a detailed discussion of this issue.⁴⁰

Second, Mr. Rigsby uses the U. S. Treasury total returns in his computation when he should have used U.S. Treasury income returns. As I explained in my direct testimony, the market risk premium is calculated by subtracting the risk-free rate from the market return.⁴¹ Mr. Rigsby erroneously used the average total return

³⁸ Richard A. Brealey and Stewart C. Myers, Principles of Corporate Finance 156-157 (7th ed. 2003); Roger A. Morin, *New Regulatory Finance* 156-157 (Public Utility Reports, Inc. 2006) ("Morin"); Ibbotson SBBI 2009 Valuation Yearbook 59-62.

³⁹ *Morin, supra*, at 157-157.

⁴⁰ *Morin* at 133-43.

⁴¹ Bourassa Dt. at 29.

on a Treasury security rather than the average <u>income</u> return. As shown on Schedule WAR-7, at page 2, attached to Mr. Rigsby's direct testimony, the total return used to calculate the market risk premium was 5.6 percent. This was the average total return on an intermediate-term Treasury (1926-2008) as published in the 2009 Ibbotson SBBI Valuation Edition Yearbook (Table 2-1). By contrast, the average income return for an intermediate-term Treasury security was 4.7 percent.

The reason that an average income return must be used, rather than the average total return, is quite straightforward. The CAPM is a risk premium methodology that is based on the premise that an investor expects to earn a return equal to the return on a risk-free investment, plus a premium for assuming additional risk that is proportional to the security's market risk (i.e., its beta). U.S. Treasuries are commonly used as a proxy for the risk-free rate because they are backed by the United States government, effectively eliminating default risk. The income return is the portion of the total return that results from the bond's periodic cash flow, i.e., the interest payments. The income return provides an unbiased estimate of the riskless rate of return because an investor can hold the Treasury security to maturity and receive fixed interest payments with no capital loss or capital gain. If the total return on a Treasury security is used instead, additional risk is injected into the CAPM estimate, which is inconsistent with treating the security as a riskless asset. As explained by *Ibbotson*:

Another point to keep in mind when calculating the equity risk premium is that the income return on the appropriate-horizon Treasury security, rather than the total return, is used in the calculation. The total return is comprised of three return components: the income return, the capital appreciation return, and the reinvestment return. The income return is defined as the portion of the total return that results from a periodic cash flow or, in this case, the bond coupon payment. The capital appreciation return results from the price change of a bond over a specific period. Bond prices generally change in reaction to unexpected fluctuations in yields.

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Reinvestment return is the return on a given month's investment income when reinvested into the same asset class in the subsequent months of the year. The income return is thus used in the estimation of the equity risk premium because it represents the truly riskless portion of the return.⁴²

As a consequence of incorrectly using U.S. Treasury total returns and well as geometric means, RUCO's CAPM estimate dramatically understates the cost of equity for the water utility sample. If an intermediate-term Treasury security is used as the proxy for the risk-free rate of return, the market risk premium would increase to 6.9 percent from 6.1 percent using the conceptually correct arithmetic averages. If that market risk premium is substituted for the 6.1 percent market risk premium used by Mr. Rigsby, the arithmetic mean CAPM cost of equity for his water utility sample would increase from 7.5 percent to 8.2 percent – an increase of 70 basis points.

Third, Mr. Rigsby has ignored current market risk. This Commission has consistently approved the use of a current market risk premium in implementing the CAPM in water and wastewater utility rate cases. In the Chaparral City case, for example, the Commission adopted cost of capital used an historic market risk premium and a current market risk premium in its CAPM estimates. RUCO, however, has ignored current market risk in its CAPM estimates and has relied instead on incorrectly calculated historic market risk premiums.

Changes in the current market risk premium have been a significant factor in the cost of equity authorized by the Commission for water and wastewater utilities.

⁴² *Ibbotson* at 75-76.

⁴³ Chaparral City Water Company, Decision No. 68176 (September 30, 2005).

⁴⁴ See Direct Testimony of Alejandro Ramirez, Docket No. W-02113A-04-0616 (March 22, 2005); Surrebuttal Testimony of Alejandro Ramirez, Docket No. W-02113A-04-0616 (May 5, 2005).

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⁴⁹ Id.

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In Arizona Water Company's Eastern Group case, filed in 2002, Staff computed a current market risk premium of 13.1 percent in its CAPM estimate, and relied on that market risk premium in estimating a cost of equity of 9.2 percent, using the same six sample water utilities.⁴⁵ At that time, the country was in the midst of a recession, and, according to Staff, interest rates had fallen to the lowest levels since the 1950s. 46 Moreover, the average beta of Staff's water utility sample group was only 0.59 at that time, indicating that investment risk for the water utility industry was low relative to the market.⁴⁷

Two years later, Arizona Water Company filed a rate case for its Western Group systems. Interest rates had increased from the levels in 2003, and the average beta of the Staff's sample utilities had increased as well, indicating greater investment risk. However, Staff's cost of equity estimate was virtually identical to the Eastern Group case, 9.1 percent. 48 The primary reason was that Staff's current market risk premium had dropped from 13.1 percent to 7.8 percent.⁴⁹ Commission, in adopting Staff's CAPM estimate, relied on this change, explaining that "while interest rates have gone up, the cost of equity for the market as a whole has decreased, while the cost of equity for utilities has remained relatively stable."50

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⁴⁵ Decision No. 66849 at 21 (March 19, 2004); *see also* Direct Testimony of Joel M. Reiker, Docket No. W-01445A-02-0619, 24-25 (July 8, 2003).

⁴⁶ Direct Testimony of Joel M. Reiker, Docket No. W-01445A-02-0619, 5 (July 8, 2003).

⁴⁷ Direct Testimony of Joel M. Reiker, Docket No. W-01445A-02-0619, 23 (July 8, 2003); see also Decision No. 66849 at 20.

⁴⁸ Surrebuttal Testimony of Alejandro Ramirez, Docket No. W-01445A-04-0650, Sch. AXR-8 (May 25, 2005).

⁵⁰ Arizona Water Co. (Western Group), Decision No. 68302 at 38 (Nov. 14, 2005).

Even more recently, in Black Mountain Sewer Corporation's rate case, the Commission relied on a further decline in the current market risk premium to support Staff's recommended 9.6 percent cost of equity.⁵¹ In that case, interest rates and the average beta of the sample group were even higher than 2003 levels, and while the result produced by Staff's models was higher, the increase was not as large as would be expected.⁵² The reason was that the current market risk premium had decreased to only 5.7 percent, reducing the result produced by the CAPM. Thus, while interest rates increased and the investment risk of the water utility sample had increased, Staff explained that those increases were offset by a further decline in the current market risk premium, indicating that the overall risk of the market had declined.⁵³

As these decisions show, not only has the Commission consistently considered the current market risk premium, but changes in the current market risk premium have had a major impact on the cost of equity, offsetting changes in interest rates and water utility betas in recent cases. Further, RUCO's witness has acknowledged the importance of considering current market conditions in determining the cost of equity:

Consideration of the economic environment is necessary because trends in interest rates, present and projected levels of inflation, and the overall state of the U.S. economy determine the rate of return that investors earn on their invested funds. Each of these factors represent potential risks that must be weighed when estimating the cost of equity

⁵¹ Black Mountain Sewer Corp., Decision No. 69164 (Dec. 5, 2006).

⁵² In the Black Mountain case, the intermediate-term Treasury used by Staff in its CAPM was 4.8 percent, while the average beta of Staff's sample group was 0.74. Surrebuttal Testimony of Pedro M. Chaves, Docket No. SW-02361A-05-0657, Sch. PMC-2 (May 4, 2006). In Arizona Water's Eastern Group case, in contrast, the intermediate-term Treasury used by Staff in its CAPM was 3.3 percent, while the average beta of Staff's sample group was 0.59. Direct Testimony of Joel M. Reiker, Docket No. W-01445A-02-0619, Sch. JMR-7 (July 8, 2003).

⁵³ Black Mountain Sewer Corp., Decision No. 69164 at 25-26 (Dec. 5, 2006).

capital for a regulated utility and are, most often, the same factors considered by individuals who are also investing in non-regulated entities.⁵⁴

In light of the current volatility in the financial markets, the failure to consider current market risk would grossly distort the CAPM result. Consequently, RUCO's use of two <u>historic</u> market risk premiums (one of which is conceptually wrong for the reasons given previously) without considering the impact of <u>current</u> market risk on investor expectations invalidates RUCO's cost of equity estimate.

Finally, and perhaps most importantly of all, three of the four of Mr. Rigsby's CAPM estimates (one for water and two for the gas utilities), as well as his overall CAPM result, are at or below the current cost of Baa investment grade bonds. The current cost of investment grade bonds in 6.3 percent.⁵⁵ The following are the results of Mr. Rigsby's CAPM as shown on WAR-1, page 3 of 3:

Geometric mean CAPM estimate - water companies 5.92%

Arithmetic mean CAPM estimate - water companies 7.49%

Geometric mean CAPM estimate - gas companies 5.25%

Arithmetic mean CAPM estimate - gas companies 6.51%

Overall CAPM result 6.29%

A simple reality check should have caused Mr. Rigsby to question his inputs to the CAPM. This clearly demonstrates that RUCO's methods are not only biased downward, but should not be used.

Q. DOES THAT CONCLUDE YOUR REBUTTAL TESTIMONY?

A. Yes.

⁵⁴ Rigsby Dt. at 38.

⁵⁵ Federal Reserve, November 23, 2009.

BOURASSA REBUTTAL COST OF CAPITAL SCHEDULES (Phase I)

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Summary of Cost of Capital

Exhibit Schedule D-1 Page 1 Witness: Bourassa

	Weighted <u>Cost</u> 1.06%	10.01%	11.07%	<u>DULES:</u>	
ear	(e) Cost W <u>Rate</u> 6.40%	12.00% 10.01%		RECAP SCHEDULES: A-3	
End of Projected Year	Percent of <u>Total</u> 16.61%	83.39%	100.00%	집 4	
En	Dollar <u>Amount</u> \$ 11,274,570	56,603,834	\$ 67,878,403		
	Weighted <u>Cost</u> 1.14%	9.86%	11.00%		
	(e) Cost <u>Rate</u> 6.39%	12.00%	II		
End of Test Year	Percent of <u>Total</u> 17.86%	82.14%	100.00%	(516,971) 604,222 633,536 (745,742)	
End of Te	Dollar <u>Amount</u> 11,506,844	52,906,962	64,413,805	water) per Direct \$ Direct \$ Rebuttal \$	
	Item of Capital Long-Term Debt	Stockholder's Equity1	Totals \$	Acumm. depreciation adjustments (Water and Wastewater) per Direct CIAC adjustments (Water and Wastewater) per Direct Deferred Income Taxes (Water and Wastewater) per Direct Deferred Income Taxes (Water and Wastewater) per Rebuttal SUPPORTING SCHEDULES: D-1 D-3 D-4 E-1	
	Line No.	۷ m ۶	4 ທ ແ	0 ~ 0 0 1 1 2 5 4 5 9 7 8 6 5 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	ဂိ

Exhibit Schedule D-2 Page 1 Witness: Bourassa

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Cost of Long Term Debt

		177355	54918.75																		
	Current Debt Discount	-2645.01																			
	Current	180000	90009																		
	Weighted Cost	2.14%	4.26%	0.00%	%00 [°] 0									6.40%							
崩	Interest												,								
End of Projected Year	Annual													721,723							
Endo	Amount Outstanding	4,106,520	7,168,050	•	•									6.39% \$11,274,570							
	Interest Weighted Rate Cost	2.19%	4.21%	0.00%	0.00%									6.39%							
	Interest	5.88%	6.70%										•								
End of Test Year	Annual				•									\$ 735,831							
End	Amount	4,283,875	7,222,969											\$ 11,506,844 \$ 735,831							
	Jeseriation of Debt	1999 IDA Bonds	2001 IDA Bonds											Totals	Supporting Schdules:	E-2					
	Line				4	Ŋ	9	7	σ,	6	10	Ξ	12				17	18	19	20	21

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Cost of Preferred Stock

Exhibit Schedule D-3 Page 1 Witness: Bourassa

End of Test Year

End of Projected Year

Line	Description	Shares		Dividend		Shares		Dividend	
No.	of Issue	Outstanding	<u>Amount</u>	Requirement	<u>C</u>	<u>Dutstanding</u>	<u>Amount</u>	Requirement	
1									
2									
3	NOT APPLICABLE, N	NO PREFERRE	ED STOCK	(ISSUED OR OUT	TSTANDIN	NG			
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17	SUPPORTING SCHE	:DULES:		· ·-	CAP SCH	EDULES:			
18	(a) E-1			(a	a) D-1				
19									
20									

Litchfield Park Service Company - Water Division Test Year Ended September 30, 2008 Cost of Common Equity

Exhibit Schedule D-4 Page 1 Witness: Bourassa

Line		
No.		
1		
2	The Company is proposing a cost of common equity of	12.00% .
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17	SUPPORTING SCHEDULES:	RECAP SCHEDULES:
18	(a) E-1	(a) D-1
19		
20		

Litchfield Park Service Company Summary of Results

Exhibit Rebuttal Schedule D-4.0 Witness: Bourassa

Method	Low	High	Midpoint
DCF Constant Growth	9.3%	14.9%	12.1%
DCF Sustainable Growth	9.4%	12.0%	10.7%
DCF Two-Stage	9.5%	13.5%	11.5%
Average DCF Results	9.4%	13.5%	11.4%
САРМ	8.3%	16.7%	12.5%
Average DCF and CAPM Results	8.9%	15.1%	12.0%

Litchfield Park Service Company Selected Characteristics of Water Utilities

Exhibit Rebuttal Schedule D-4.1 Witness: Bourassa

Moody's Bond <u>Rating</u>	A 2	X X	Z Z	A R	R R	R R		Ä.
S&P Bond Rating	∢	¥-	AA-	AA A	∢	N R		Z Z
Net Plant millions)	744.9	3,479.8	1,026.3	260.3	327.0	509.5	1,058.0	116.3
_ =	₩	↔	₩	↔	υ	₩	₩	(/)
Operating Revenues (millions)	342.6	658.8	435.1	66.2	90.8	217.3	301.8	13.2
용용됨	↔	↔	↔	₩	₩	⇔	↔	€9
% Water <u>Revenues</u>	%92	93%	%86	83%	%68	%56	91%	100%
	<u>Company</u> 1. American States	2. Aqua America	3. California Water	4. Connecticut Water	5. Middlesex	6. SJW Corp.	Average	Litchfield Park Service Company

Source: AUS Utility Reports (November 2009)

Litchfield Park Service Company Capital Structures of Water Utilities

Exhibit Rebuttal Schedule D-4.2 Witness: Bourassa

	Book Value Long-Term Col <u>Debt</u> E	∕alue Common <u>Equity</u>	Market Long-Term <u>Debt</u>	Market Value erm Common <u>t</u> <u>Equity</u>
<u>Company</u> 1. American States	46.2%	53.8%	32.5%	67.5%
2. Aqua America	54.1%	45.9%	36.7%	63.3%
3. California Water	41.7%	58.3%	28.0%	72.0%
4. Connecticut Water	47.0%	53.0%	32.2%	82.8%
5. Middlesex	46.2%	53.8%	35.7%	64.3%
6. SJW Corp.	46.0%	54.0%	34.9%	65.1%
Average	46.9%	53.1%	33.3%	%2'99
Litchfield Park Service Company	17.8%	82.2%	N/A	N/A

Source: Value Line Analyzer Data (November 20, 2009)

Litchfield Park Service Company Comparisons of Past and Future Estimates of Growth

Five-year his % % % % % % % % % % % % % % % % % % %	Litchfield Park Comparisons of Past and	Litchfield Park Service Company ns of Past and Future Estimates [1]	ield Park Service Company Past and Future Estimates of Growth [1]	<u>©</u>	[4]	[9]	Exhibit Rebuttal Schedule D-4.3 Page 1 Witness: Bourassa [5]	ile D-4.3 sa [7]
Book Average Future Value DPS EPS Col 14 Growth 5.66% 2.82% 14.72% 8.01% 6.13% 7.31% 7.82% 5.07% 6.74% 8.78% 5.53% 0.88% 9.44% 7.59% 7.33% 3.38% 1.19% 0.45% 1.33% 11.00% 6.96% 1.52% 7.85% 5.44% 8.00% 8.91% 6.81% 3.48% 9.26% 11.67% 6.29% 3.51% 6.46% 7.16% 8.39% 6.31% 2.17% 6.46% 7.16% 8.39%			storical averac	oe annual chan	Sab		Average	Average of Future and Historical
Value DPS EPS Col 1-4 class Growth class 5.66% 2.82% 14.72% 8.01% 6.13% 7.31% 7.82% 5.07% 6.74% 8.78% 5.53% 0.88% 9.44% 7.59% 7.33% 3.38% 1.19% 0.45% 1.33% 11.00% 6.96% 1.52% 7.85% 5.44% 8.00% 8.91% 6.81% 3.48% 9.26% 11.67% 6.29% 3.51% 6.46% 7.16% 8.39%		В	Sook			Average	Future	Growth
5.55% 2.82% 14.12% 6.01% 0.13% 7.31% 7.82% 5.07% 6.74% 8.78% 5.53% 0.88% 9.44% 7.59% 7.33% 11.00% 6.96% 1.52% 7.85% 5.44% 8.00% 8.91% 6.81% 3.48% 6.39% 8.82% 6.39% 8.39% 6.31% 2.17% 6.46% 7.16% 8.39%	Prior S		/alue	<u>DPS</u>	EPS 1,200	Col 14	Growth ¹	Col 5-6
6.29% 3.51% 6.46% 7.16% 8.39% 7.16% 8.39% 7.16% 8.39% 7.16% 8.39% 7.16% 8.39% 7.16% 8.39% 7.16% 8.39%	x x y y y		.05%	7.02%	14.7.2% E 078/	6.01%	0.15%	7.07.7
3.38% 1.19% 0.45% 1.33% 11.00% 6.96% 1.52% 7.85% 5.44% 8.00% 8.91% 6.81% 3.48% 9.26% 11.67% 6.29% 3.51% 6.84% 6.39% 8.82% 6.31% 2.17% 6.46% 7.16% 8.39%	0./3 2.7.5		.31% 53%	7.02% 0.88%	5.07% 9.44%	7.59%	0.70% 7.33%	7.46%
6.96% 1.52% 7.85% 5.44% 8.00% 8.91% 6.81% 3.48% 9.26% 11.67% 6.29% 3.51% 6.84% 6.39% 8.82% 6.31% 2.17% 6.46% 7.16% 8.39%	0.29		38%	1.19%	0.45%	1.33%	11.00%	6.16%
6.29% 3.51% 6.84% 9.26% 11.67% 6.29% 3.51% 6.84% 6.39% 8.39% 6.31% 2.17% 6.46% 7.16% 8.39%	Nega		%96°	1.52%	7.85%	5.44%	8.00%	6.72%
6.29% 3.51% 6.84% 6.39% 8.82% 6.31% 2.17% 6.46% 7.16% 8.39%	17.82		.91%	6.81%	3.48%	9.26%	11.67%	10.46%
6.31% 2.17% 6.46% 7.16% 8.39%	9.64		.29%	3.51%	6.84%	6.39%	8.82%	7.61%
	8.84		.31%	2.17%	6.46%	7.16%	8.39%	7.26%

Litchfield Park Service Company Comparisons of Past and Future Estimates of Growth

Litchfield Park Service Company Comparisons of Past and Future Estimates of Growth Page 1 Witness: Bourassa	[2] [3] [4] [5] Ten-year historical average annual changes Average	Value DPS EPS Col 1-4 Growth 1 4.83% 1.76% 3.68% 5.00% 6.13% 9.00% 6.97% 6.20% 7.98% 8.78% 3.51% 0.90% 2.74% 3.89% 7.33% 3.78% 1.22% 1.45% 3.18% 11.00% 4.35% 1.91% 2.29% 3.98% 8.00% 5.89% 6.01% 3.64% 7.61% 11.67%	40% 5.23% 3.13% 3.33% 5.27% 8.82% 7.04% 07% 4.59% 1.84% 3.19% 4.49% 8.39% 6.54%
Litchfield Park Service Company ons of Past and Future Estimates	[1] Ten-vear hist	Price V6 9.72% 4.8 9.75% 9.0 8.42% 3.5 6.28% 3.7 7.37% 4.3	9.40% 5.2 9.07% 4.5
Litchf Comparisons of		Company 1. American States 2. Aqua America 3. California Water 4. Connecticut Water 5. Middlesex 6. SJW Corp.	GROUP AVERAGE GROUP MEDIAN 1 See Schedule D-4.5 Sources: Value Line Data

 $\frac{N_{\text{c}}}{1} = \frac{1}{1}$

Litchfield Park Service Company Analysts Forecasts of Earnings Per Share Growth

Exhibit Rebuttal Schedule D-4.5 Witness: Bourassa

(5)	Average Growth (G) (Cols 1-3) 6.13% 8.78% 7.33% 11.00% 8.00% 11.67% 8.82% 8.39%	
(4)	Value Line 9.50% 10.00% 7.00% 10.00% 9.08%	
(3)	EPS GROWTH ngstar Yahoo 0% 8.33% 0% 6.00% 15.00% 0% 8.00% 10.00% 2% 8.56% er 20, 2009	
(2)	EPS GF Morningstar 7.00% 8.80% 7.30% 8.00% 15.00% 9.22%	2009
Ð	Zacks 4.00% 8.00% 7.00% 9.00% 9.00% 7.40%	wember 20, 20 November 20,
	Company Zacks Morningstar	Morningstar Website November 20, 2009 Yahoo Finance Website November 20, 2009

Litchfield Park Service Company Estimates of Sustainable Growth

Exhibit Rebuttal Schedule D-4.6 Witness: Bourassa

Line No.		(1)	(5)	(6)	(4)	(5)
1 w 4 r		3	9	ì	č	Average Sustainable
യ വ	Company	Retention Ratio	rate of Return	Growth	Growth	(Cols 3+4)
2	1. American States	0.52	12.00%	6.23%	2.56%	8.79%
&	2. Aqua America	0.48	11.50%	5.52%	0.43%	5.95%
თ	3. California Water	0.49	12.00%	5.93%	0.98%	6.91%
10	4. Connecticut Water					
	5. Middlesex					
12	6. SJW Corp.					
13						
14						
15	GROUP AVERAGE	0.50	11.83%	2.89%	1.32%	7.22%
16	GROUP MEDIAN	0.49	12.00%	5.93%	0.98%	6.91%
17						
18	Sources:					
19	Value Line Data					
20						
21						
22						
23						

Litchfield Park Service Company Estimates of sv Growth

Exhibit Rebuttal Schedule D-4.7 Witness: Bourassa

4)		λS	Growth	2.56%	0.43%	0.98%	na	na	na			1.32%	0.98%					
(6)					0.51							0.47	0.46					
(2)	Current	Market to Book	Ratio	1.78	2.03	1.84						1.88	1.84					
(1)	Stock											2.95%	2.14%					
			Company	 American States 	2. Aqua America	California Water	Connecticut Water	5. Middlesex	6. SJW Corp.			GROUP AVERAGE	GROUP MEDIAN		Sources:	Value Line Data		
Line 2 1 - 3	4	2	9	7	œ	တ	10	1	12	13	1	15	16	17	18	19	20	77

Litchfield Park Service Company Discounted Cash Flow Analysis (Water) Constant Growth DCF Model Using Projected EPS Growth

Exhibit Rebuttal Schedule D-4.8 Witness: Bourassa

	(4) (5) Indicated	Cost of Equity	k=Div Yld + g	- _1							7.53% 10.6% 14.9% 14.9% 17.5% 14.9% 14.9%											
	(3)		Dividend	Yield	3.19%	3.40%	7000	3.30%	3.30% 3.91%	3.30% 3.91% 4.47%	3.30% 3.91% 4.47% 3.25%	3.30% 3.91% 4.47% 3.25%	3.30% 3.91% 4.47% 3.25%	3.30% 3.91% 4.47% 3.25% 3.59%	3.30% 3.91% 4.47% 3.25% 3.59%	3.30% 3.91% 4.47% 3.25% 3.59%	3.30% 3.91% 4.47% 3.25% 3.59%	3.30% 3.91% 4.47% 3.25% 3.59%	3.30% 4.47% 3.25% 3.59%	3.30% 3.91% 4.47% 3.25% 3.59%	3.30% 3.91% 4.47% 3.25% 3.59%	3.30% 3.91% 4.47% 3.25% 3.59%
	(2)	Next	Year's	Div (D1)	1.02	0.54	7	<u>o</u>	0.89	0.89 0.89 0.71	0.89 0.71 0.72	0.89 0.71 0.72	0.89 0.71 0.72	0.89 0.71 0.72	0.89 0.71 0.72	0.89 0.71 0.72	0.89 0.71 0.72	0.89 0.71 0.72	0.89 0.71 0.72	1. 10 0.89 0.71 0.72 November 20, 2	1. 10 0.89 0.71 0.72 November 20, 2	1.10 0.89 0.71 0.72 November 20, 2
	(E)		Spot	Price (Po)	31.94	15.88	25.70	07.00	22.80	22.78 22.80 15.91	22.80 22.80 15.91 22.18	22.80 22.80 15.91 22.18	22.80 15.91 22.18	22.80 15.91 22.18	22.80 15.91 22.18	22.80 15.91 22.18	22.80 15.91 22.18	22.80 15.91 22.18	22.80 15.91 22.18 22.18	22.80 15.91 22.18 11 Analyzer Data	22.80 15.91 22.18 22.18 of Analyzer Data site November 20	22.80 15.91 22.18 int Analyzer Data
				Company	1. American States	2. Aqua America		California Water	 California Water Connecticut Water 	 California Water Connecticut Water Middlesex 	 California Water Connecticut Water Middlesex SJW Corp. 	 California Water Connecticut Water Middlesex SJW Corp. 	 California Water Connecticut Water Middlesex SJW Corp. 	3. California Water4. Connecticut Water5. Middlesex6. SJW Corp.GROUP AVERAGE	3. California Water 4. Connecticut Water 5. Middlesex 6. SJW Corp. GROUP AVERAGE GROUP MEDIAN	3. California Water 4. Connecticut Water 5. Middlesex 6. SJW Corp. GROUP AVERAGE GROUP MEDIAN	3. California Water 4. Connecticut Water 5. Middlesex 6. SJW Corp. GROUP AVERAGE GROUP ASCHAGE GROUP MEDIAN 1 See Schedules D-4.£	3. California Water 4. Connecticut Water 5. Middlesex 6. SJW Corp. GROUP AVERAGE GROUP MEDIAN 1 See Schedules D-4.£	3. California Water 4. Connecticut Water 5. Middlesex 6. SJW Corp. GROUP AVERAGE GROUP MEDIAN 1 See Schedules D-4.5	3. California Water 4. Connecticut Water 5. Middlesex 6. SJW Corp. GROUP AVERAGE GROUP MEDIAN 1 See Schedules D-4.£ Sources: Value Line Investmer	3. California Water 4. Connecticut Water 5. Middlesex 6. SJW Corp. GROUP AVERAGE GROUP MEDIAN 1 See Schedules D-4.£ Sources: Value Line Investmer Yahoo Finance Webs	3. California Water 35.78 1.18 5.30% 4. Connecticut Water 22.80 0.89 3.91% 5. Middlesex 15.91 0.71 4.47% 6. SJW Corp. 22.18 0.72 3.25% GROUP AVERAGE GROUP MEDIAN 1 See Schedules D-4.5 Sources: Value Line Investment Analyzer Data November 20, 2009 Yahoo Finance Website November 20, 2009
Line No.	-	ω 4	5	9	7	8	σ:	,	, _C	, e t	· 5	5 1 1 1 1 2 2 2	0 1 1 2 1 2 4	, 0	0 1 1 2 2 4 4 5 9	0 1 1 2 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	0 1 1 2 2 4 2 9 7 8	0 1 1 2 2 4 4 5 5 7 8 6	, 0	20 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	,	0 1 1 2 2 4 4 5 5 7 8 6 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8

Litchfield Park Service Company Discounted Cash Flow Analysis (Water) Constant Growth DCF Model - Sustainable Growth

Exhibit Rebuttal Schedule D-4.9 Witness: Bourassa

Line No.								
-		Ξ	(3)	(3)	(4)	(2)	(9)	(2)
2								Indicated
က								Cost of
4			Next		Sus	Sustainable Growth1	rowth¹	Equity
2		Spot	Year's	Dividend			br+sv	k=Div Yld + g
9	Company	Price (Po)	Div (D1)	Yield	힏	S	Growth (g)	(Cols 3+6)
7	1. American States	31.94	1.02	3.19%	6.23%	2.56%	8.79%	12.0%
8	2. Aqua America	15.88	0.54	3.40%	5.52%	0.43%	2.95%	9.4%
o	3. California Water	35.78	1.18	3.30%	5.93%	0.98%	6.91%	10.2%
10	4. Connecticut Water	22.80	0.89	3.91%			7.22%	11.1%
11	5. Middlesex	15.91	0.71	4.47%			7.22%	11.7%
12	6. SJW Corp.	22.18	0.72	3.25%			7.22%	10.5%
13								
14								
15	GROUP AVERAGE			3.59%			7.22%	10.8%
16	GROUP MEDIAN							10.8%
17								
18								
19	¹ See Schedule D-4.6	and D-4.7						
20								
21								
22	Sources:							
23	Value Line Investme	nt Analyzer Da	ata Novemb	er 20, 2009				
24	Yahoo Finance Web	site Novembe	r 20, 2009					

Litchfield Park Service Company Discounted Cash Flow Analysis (Water) Two-Stage Growth - Projected

Exhibit	Rebuttal Schedule D-4.10	Witness: Bourassa

<u></u>								
-		5	(2)	ල	4)	(2)	(9)	(2)
2								
3								
4			Next		Pro	jected Growth Rate	Š	Indicated
5		Spot	Year's	Yield	Near	Long		Cost of
9	Company	Price(Po)	Div (D1)	(D1/Po)	Term	Term (GDP)	Average ²	Equity
2	1. American States	31.94	1.02	3.19%	6.13%	%02'9		9.5%
80	2. Aqua America	15.88	0.54	3.40%	8.78%	6.70%		11.5%
ග	3. California Water	35.78	1.18	3.30%	7.33%	6.70%		10.4%
10	4. Connecticut Water	22.80	0.89	3.91%	11.00%	6.70%		13.5%
11	5. Middlesex	15.91	0.71	4.47%	8.00%	6.70%		12.0%
12	6. SJW Corp.	22.18	0.72	3.25%	11.67%	6.70%		13.3%
13								
14								
15	GROUP AVERAGE			3.59%			8.12%	11.7%
16	GROUP MEDIAN							11.8%
17								
18	1 See Schedule D-4.5							
19	² Near term growth given weighting of .67	en weighting of.	.67					
20								

Litchfield Park Service Company

Market Betas

Exhibit Rebuttal Schedule D-4.11 Witness: Bourassa

Source:

0.80 Average

0.80 0.65 0.75 0.85 0.80

Connecticut Water

← ∠ 6 6 6 6

Middlesex SJW Corp.

California Water Aqua America

American States

Company

Value Line Investment Analyzer Data November 20, 2009

Litchfield Park Service Company Computation of Current Market Risk Premium

	4.12	
	Schedule	Bourassa
Exhibit	Rebuttal (Witness:

		Expected				Expected		Monthly Average		Market	
	Dividend	Dividend				Market		30 Year		Risk	
Month	Yield (D ₂ /P ₂) ¹	Yield (D ₄ /P ₀) ²	+	Growth (a) ³	11	Return (k)		Treasury Rate	11	Premium (MRP)	
Nov	2.60%	2.60%	+	13.41%	н	16.01%		4.52%	n	11.49%	
Dec 2007	2.61%	2.61%	+	13.51%	11	16.12%		4.52%	u	11.60%	
Jan 2008	2.67%	2.67%	+	15.19%	(1	17.86%		4.33%	IJ	13.53%	
Feb	2.74%	3.19%	+	16.47%	н	19.66%		4.52%	11	15.14%	
Mar	2.85%	3.35%	+	17.64%	11	20.99%		4.39%	11	16.60%	
April	2.69%	3.11%	+	15.73%	ıı	18.84%		4.44%	Ħ	14.40%	
Mav	2.73%	3.15%	+	15.51%	II	18.66%		4.60%	II	14.06%	
, un	3.13%	3.71%	+	18.51%	11	22.22%		4.69%	II	17.53%	
in c	3.15%	3.74%	+	18.61%	u	22.35%		4.57%	11	17.78%	
Aud	3.06%	3.59%	+	17.08%	11	20.67%		4.50%	н	16.17%	
Sept	3.07%	3.66%	+	19.30%	11	22.96%		4.27%	n	18.69%	
Ott	4.31%	5.63%	+	30.53%	11	36.16%		4.17%	II	31.99%	
Nov	4.97%	6.71%	+	35.02%	11	41.73%		4.00%	Ħ	37.73%	
Dec 2008	4.44%	5.76%	+	29.62%	11	35.38%		2.87%	II	32.51%	
Jan 2009	4.86%	6.32%	+	30.02%	Ħ	36.34%		3.13%	u	33.21%	
Feb	5.50%	7.43%	+	35.13%	11	42.56%		3.59%	(I	38.97%	
Mar	4.21%	5.36%	+	27.33%	ш	32.69%		3.64%	II	29.05%	
April	3.66%	4.47%	+	22.05%	11	26.52%		3.76%	II	22.76%	
May	3.46%	4.14%	+	19.67%	11	23.81%		4.23%	u	19.58%	
Jun	3.25%	3.87%	+	19.16%	11	23.03%		4.52%	II	18.51%	
lut	2.90%	3.37%	+	16.31%	11	19.68%		4.41%	II	15.27%	
Aug	2.82%	3.22%	+	14.21%	"	17.43%		4.37%	II	13.06%	
Sept	2.80%	3.20%	+	14.32%	U	17.52%		4.19%		13.33%	
Oct	2.75%	3.15%	+	14.49%	n	17.64%		4.19%	n	13.45%	
Short-term Trends											
Recent Twelve Months Avg	3.72%	4.60%	+	22.02%	В	26.62%	,	3.98%	ıı	22.64%	
Recent Nine Months Avg	3.48%	4.25%	+	20.30%	11	24.54%		4.10%	11	20.44%	
Recent Six Months Ava	3.00%	3.49%	+	16.36%	н	19.85%	,	4.32%	II	15.53%	
Recent Three Months Avg	2.79%	3.19%	+	14.34%	n	17.53%	,	4.25%	11	13.28%	
Dorommondad	3 00%	3.49%	+	16.36%	11	19.85%		4.32%	u	15.53%	
		: :									

¹ Average Current Dividend Yield (DyP₀) of dividend paying stocks. Data from Value Line Investment Analyzer Software Data - Value Line 1700 Stocks
² Expected Dividend Yield (D₂P₀) equals average current dividend yield (D0/P0) finnes one plus growth rate(g).
³ Average 3-5 year price appractation (annualized). Data from Value Line Investment Analyzer Software Data - Value Line 1700 Stocks
⁴ Monthy average 30 year U.S. Treasury. Federal Reserve.

Test Year Ended September 30, 2008 Capital Asset Pricing Model (CAPM) **Litchfield Park Service Company**

Rebuttal Schedule D-4.13 Witness: Bourassa Exhibit

Line								
ġ				•				
_		弘	+	beta ³	×	Вр	II	¥
7								
က	Historical Market Risk Premium CAPM ¹	2.8%	+	0.80	×	6.9% 4	11	8.3%
4								
3	Current Market Risk Premium CAPM ²	4.3%	+	0.80	×	15.5% ⁵	II	16.7%
9								
7								
œ	Average							12.5%
တ								
10								
7								
12	¹ Federal Reserve November 20, 2009 average of 5, 7 and 10 year Treasury rates (Rf)	0 year Tre	easury	rates (Rf)				
13	² Federal Reserve November 20, 2009 30 year Treasury rate (Rf)	(Rf)						
14	³ Value Line Investment Analyzer data. See Sched. D-4.11							
15	⁴ Historical Market Risk Premium from (Rp) MorningStar SBBI 2009 Yearbook Table A-2 Intermediate-Horizon ERP 1926-2008	31 2009 Ye	arbool	k Table A-	2 Interm	ediate-Horizo	n ERP	1926-2008
16	⁵ Computed using DCF constant growth method to determine current market return on Value Line 1700 stocks	e current	narket	return on \	/alue Lii	ne 1700 stock	s)	
17	and CAPM with beta of 1.0 to compute Current Market Risk Premium (Rp). See Sched. D-4.12.	R Premium	(Rp).	See Sche	d. D-4.1	2.		
9								
19								
20								

¹ Federal Reserve November 20, 2009 average of 5, 7 and 10 year Treasury rates (Rf)

² Federal Reserve November 20, 2009 30 year Treasury rate (Rf)

³ Value Line Investment Analyzer data. See Sched. D-4.11

⁴ Historical Market Risk Premium from (Rp) MorningStar SBBI 2009 Yearbook Table A-2 Intermediate-Horizon ERP 1926-2008

⁵ Computed using DCF constant growth method to determine current market return on Value Line 1700 stocks

and CAPM with beta of 1.0 to compute Current Market Risk Premium (Rp). See Sched. D-4.12.

TJB-RB-COC (Phase I)

ATTACHMENT 1

Litchfield Park Service Company Size Premium¹

Attachment 1

Risk Premium for Small Water Utilities ⁷				1.81%	Risk Premium <u>for Small Water Utilities</u>	0.99%
Size <u>Premium</u>	%06:0	1.56%	2.83%	4.43%		
Beta(f)	1.12	1.25	1.50	1.62		
	Mid-Cap Companies²	Low-Cap Companies ³	Micro-Cap Companies ⁴	Decile 10 ⁵		Estimated Risk Premium for small water utilities ⁶

Data from Table 7-11 of Morningstar, Ibbotson SBBI 2009 Valuation Yearbook.

⁷ Computed as the weighted differences between the Decile 10 risk premium and the inidicated risk premiums for the sample water utitities as shown below. Excludes risk due to differences in beta.

2							}	,	7
4					ш,	Beta(ß)	Premium	for Sn	for Small Water Utilities
2	;						,		
9 ~	Ĭ	Mid-Cap Companies ²				1.12	0.90%		
∞ σ	Ę	Low-Cap Companies³				1.25	1.56%		
, 5 £	Ĭ	Micro-Cap Companies⁴				1.50	2.83%		
: 2	Ö	Decile 10 ⁵				1.62	4.43%		1.81%
13									
4 :									
<u>င</u> 9									Risk
14								,0	Premium
<u>ა</u> დ								ō 5	ior smail water cullines
20	ЕS	Estimated Risk Premium for small water utilities [§]	small water utilit	ties					%66.0
72	ì								
22									
23									
24	-	¹ Data from Table 7-11 of Morningstar, Ibbotson SBBI 2009 Valuation Yearbook.	ingstar, Ibbotson S	SBB1 20	009 Valuation	Yearbook.			
25	2	² Mid-Cap companies includes companies with market capitalization between \$1,850 million and \$7,360 million.	companies with m	arket ca	apitalization	oetween \$1,850	million and \$7	7,360 million.	
56	Ę	³ Low-Cap companies includes companies with market capitalization between \$454 million and \$1,849 million.	companies with m	narketo	apitalization	between \$454 r	nillion and \$1,	849 million.	
27	4 ≥	⁴ Micro-Cap companies includes companies with market capitalization less than \$453 million.	s companies with	market	capitalizatio	less than \$45 ال	3 million.		
78	э О	⁵ Decile 10 includes companies with market capitalization between \$1.6 million and \$219 million.	s with market capit	alizatio	n between \$'	l.6 million and \$	219 million.		
58	ω L	⁶ From Table 2, Thomas M. Zepp, "Utility Stocks and the Size Effect Revisited," The Quarterly Review	pp, "Utility Stocks	and the	Size Effect	Revisited," The	Quarterly Rev	iew	
30	6,	of Economics and Finance , 43 (2003), 578-582.	3 (2003), 578-582.				:		
3	`	Computed as the weighted differences between the Decile 10 risk premium and the inidicated risk premiums	ifferences betweer	n the De	ecile 10 risk į	vemium and the	e inidicated ris	k premiums	
35	-	for the sample water utities as shown below. Excludes risk due to differences in beta.	as shown below. {	Exclude	s risk due to	differences in b	eta.		
33			Market Cap.	ď		Size	Difference		Weighted
8			(Millions)		Class	Premium	to Decile 10	Weight	Size Premium
32	-	American States	€9	587 Lo	Low-Cap	1.56%	2.87%	0.166667	0.48%
98	7	Aqua America	\$	2,365 Mic	Mid-Cap	%06:0	3.53%	0.166667	0.59%
37	က	California Water	€9	794 Lo	Low-Cap	1.56%	2.87%	0.166667	0.48%
38	4	Connecticut Water	€9	193 De	Decile 10	4.43%	0.00%	0.166667	0.00%
33	ć.	Middlesex	€9	205 De	Decile 10	4.43%	%00.0	0.166667	0.00%
4	ġ.	SJW Corp.	69	408 Mi	Micro-Cap	2.83%	1.60%	0.166667	0.27%
4 ;		Weighted Size Premium for Small Companies	mall Companies						1.81%

² Mid-Cap companies includes companies with market capitalization between \$1,850 million and \$7,360 million.

² Low-Cap companies includes companies with market capitalization between \$454 million and \$1,849 million.

⁴ Micro-Cap companies includes companies with market capitalization less than \$453 million.

⁵ Decile 10 includes companies with market capitalization between \$1.6 million and \$219 million.

⁶ From Table 2, Thomas M. Zepp, "Utility Stocks and the Size Effect Revisited," The Quarterly Review of Economics and Finance, 43 (2003), 578-582.

TJB-RB-COC (Phase I)

ATTACHMENT 2

Using Compound 10 Year Historical Dividend Growth Discounted Cash Flow Analysis (Water) Constant Growth DCF Model - Historical Litchfield Park Service Company

[2]	Indicated	k=Div Yld + G	(Cols 2+3)	*	10.4%	*	*	%2'9	8.5%		8.6%	8.5%											
[4]	Indicated	k=Div Yld + G	(Cols 2+3)	4.7%	10.4%	3.9%	5.3%	6.7%	8.5%		%9'9	%0.9		6.3%	0 40	0% 6.5%	7.5% 7.4%						
[2]	Staff	Div.	Growth (g)3	1.76%	6.97%	0.90%	1.34%	2.08%	5.51%		3.1%	3.4%											
Z	70000	Dividend	Yield (D ₁ /P ₀) ²	2.93%	3.47%	3.01%	3.91%	4.63%	3.03%						7. 405	210p 10 2 Bottom 10 ⁵	2 Consensus ⁵		ive growth.				
[2]	, carried	Dividend	Yield (D _o /P _o) ¹	2.88%	3.24%	2.98%	3.86%	4.53%	2.87%					october 2009) ⁴	2000	Blue Chip Forecast Baa Corporate Bond Interest Rate 2012109 10 Blue Chip Economic Ban Companie Bond Informat Bate 2012 Bottom 10 ⁵	blue Chip Forecast Baa Corporate Bond Interest Nate 2012 Bottom To Blue Chip Forecast Baa Corporate Bond Interest Rate 2012 Consensus ⁵		rent cost of debt (Baa) or negat	DVP. See Scendule D.4-8	$D_0/P_0 * (1+g).$	apers.	grade bonds. 2009)
			Company	1. American States	2. Aqua America	3. California Water	Connecticut Water	5. Middlesex	6. SJW Corp.		GROUP AVERAGE	GROUP MEDIAN		Current Baa interest rate (October 2009) ⁴		Blue Cnip Forecast Baa Co	Blue Chip Forecast Baa Co		* Indicated equity cost below current cost of debt (Baa) or negative growth.	1 Snot Dividend Yield = D/Ps. See S	² Expected Dividend Yield = $D_1/P_0 = D_0/P_0 * (1+g)$	³ Growth rate (g). From Staff work papers.	 Federal Reserve. Baa investment grade bonds. Blue Chip Financial Forecast (Dec 2009)
No.	1 ຕ ₹	4 ი	9	7	œ	Ö	5	7	12	5 2	4 4	16	17	8 5	2 6	2 2	7 6	23	24 25	2,6	27	28	29 30

¹ Spot Dividend Yield = D₀/P₀. See Scehdule D.4-8

² Expected Dividend Yield = $D_1/P_0 = D_0/P_0 * (1+g)$.

³ Growth rate (g). From Staff work papers.

⁴ Federal Reserve. Baa investment grade bonds.

⁵ Blue Chip Financial Forecast (Dec 2009)

TJB-RB-COC (Phase I)

ATTACHMENT 3

Discounted Cash Flow Analysis (Water) Constant Growth DCF Model - Historical Using 10 Year Historical EPS Growth **Litchfield Park Service Company**

Line No.		(£)	[2]	[9]	.	[5]
ი ო				Staff	Indicated	Indicated
4		Current	Expected	Historical	Equity Cost	Equity Cost
2		Dividend	Dividend	EPS	k=Div Yld + G	k=Div Yld + G
9	Company	Yield (D ₀ /P ₀) ¹	Yield (D ₁ /P ₀) Growth (g) ³	Growth (g)	(Cols 2+3)	(Cols 2+3)
7	1. American States	2.88%	2.99%	3.68%	6.7%	6.7%
∞	2. Aqua America	3.24%	3.44%	6.20%	9.6%	%9.6
6	3. California Water	2.98%	3.06%	2.74%	5.8%	*
10	4. Connecticut Water	3.86%	3.90%	1.05%	4.9%	*
=	5. Middlesex	4.53%	4.66%	2.88%	7.5%	7.5%
12	6. SJW Corp.	2.87%	2.96%	3.05%	%0.9	*
13						
4						
15	GROUP AVERAGE		3.5%	3.3%	%8.9	8.0%
16	GROUP MEDIAN		3.3%	3.0%	6.3%	7.5%
17						
18	Current Baa interest rate (Ocotber 2009) ⁴	otber 2009) ⁴			6.3%	
19						
20	Blue Chip Forecast Baa Corp	Blue Chip Forecast Baa Corporate Bond Interest Rate 2012 Top 10 5	Гор 10 ⁵		8.1%	
21	Blue Chip Forecast Baa Corp	Blue Chip Forecast Baa Corporate Bond Interest Rate 2012 Bottom 10^5	Bottom 10 ⁵		6.5%	
22	Blue Chip Forecast Baa Corp	Blue Chip Forecast Baa Corporate Bond Interest Rate 2012 Consensus 5	Consensus ⁵		7.4%	
23						
24	 Indicated equity cost below current cost of debt (Baa) or negative growth. 	nt cost of debt (Baa) or negative	e growth.			
22						
56						
27	¹ Spot Dividend Yield = D ₀ /P ₀ . See Scehdule D.4-8	hdule D.4-8				
28	² Expected Dividend Yield = $D_1/P_0 = D_0/P_0 * (1+g)$.	P ₀ * (1+g).				
53	³ Growth rate (g). Staff work papers.					
30	* Federal Reserve. Baa investment grade bonds.	de bonds.				
31	⁵ Blue Chip Financial Forecast (Dec 2009)	99)				

Indicated equity cost below current cost of debt (Baa) or negative growth.

¹ Spot Dividend Yield = D₀/P₀. See Scendule D.4-8

 $^{^2}$ Expected Dividend Yield = D_1/P_0 = D_0/P_0 * (1+g).

³ Growth rate (g). Staff work papers.

⁴ Federal Reserve. Baa investment grade bonds.

⁵ Blue Chip Financial Forecast (Dec 2009)

TJB-RB-COC (Phase I)

ATTACHMENT 4

Litchfield Park Service Company Discounted Cash Flow Analysis (Water) Market Price

(13)	implied ROE = Internal	Rate of Return	(Cols 7-12)	12.5%	13.0%	11.6%	10.2%	11.8%	17.7%	12.8% 12.1%
(12)	EXPECTED CASH FLOWS ROP	Year 5	Div + Price	\$ 51.90	26.01	55.05	32.02	23.59	45.32	
(11)	S	Year 4	高	\$ 1.09	0.67	1.44	1.09	0.87	0.88	
(10)	SH FLOW	Year 3	高	\$ 1.07	0.63	1.35	1.02	0.81	0.82	
(6)	ECTED CA	Year 2	ò	\$ 1.05	0.59	1.26	0.95	0.76	0.77	
(8)	EXF									
6		Recent	Price	\$ (31.94) \$	(15.88)	(35.78)	(22.80)	(15.91)	(22.18)	
(9)	•	Year 5	Price	\$ 50.79	25.29	53.59	30.92	22.70	44.39	
(5)	10 year Historical	Annual	Price Growth	9.72%	9.75%	8.42%	6.28%	7.37%	14.89%	9.40% 9.07%
(4)		Recent	Price	\$ 31.94	15.88	35.78	22.80	15.91	22.18	
(3)	10 year Historical	Average	Div. Growth	1.76%	6.97%	0.90%	1.22%	1.91%	6.01%	3.13% 1.84%
(2)	2009	Projected	ΔİΛ	\$ 1.03	0.55	1.18	0.89	0.71	0.72	
(1)			Company	 American States 	2. Aqua America	3. California Water	Connecticut Water	5. Middlesex	6. SJW Corp.	GROUP AVERAGE GROUP MEDIAN

Sources: Value Line Data November 20, 2009 Yahoo Finance Website November 20, 2009

TJB-RB-COC (Phase I)

ATTACHMENT 5

NEW REGULATORY FINANCE

Roger A. Morin, PhD

2006
PUBLIC UTILITIES REPORTS, INC.
Vienna, Virginia

Appendix 4-A Arithmetic versus Geometric Means in Estimating the Cost of Capital

The use of the arithmetic mean appears counter-intuitive at first glance, because we commonly use the geometric mean return to measure the average annual achieved return over some time period. For example, the long-term performance of a portfolio is frequently assessed using the geometric mean return.

But performance appraisal is one thing, and cost of capital estimation is another matter entirely. In estimating the cost of capital, the goal is to obtain the rate of return that investors expect, that is, a target rate of return. On average, investors expect to achieve their target return. This target expected return is in effect an arithmetic average. The achieved or retrospective return is the geometric average. In statistical parlance, the arithmetic average is the unbiased measure of the expected value of repeated observations of a random variable, not the geometric mean. This appendix formally illustrates that only arithmetic averages can be used as estimates of cost of capital, and that the geometric mean is not an appropriate measure of cost of capital.

The geometric mean answers the question of what constant return you would have had to achieve in each year to have your investment growth match the return achieved by the stock market. The arithmetic mean answers the question of what growth rate is the best estimate of the future amount of money that will be produced by continually reinvesting in the stock market. It is the rate of return which, compounded over multiple periods, gives the mean of the probability distribution of ending wealth.

While the geometric mean is the best estimate of performance over a long period of time, this does not contradict the statement that the arithmetic mean compounded over the number of years that an investment is held provides the best estimate of the ending wealth value of the investment. The reason is that an investment with uncertain returns will have a higher ending wealth value than an investment which simply earns (with certainty) its compound or geometric rate of return every year. In other words, more money, or terminal wealth, is gained by the occurrence of higher than expected returns than is lost by lower than expected returns.

In capital markets, where returns are a probability distribution, the answer that takes account of uncertainty, the arithmetic mean, is the correct one for estimating discount rates and the cost of capital.

While the geometric mean is appropriate when measuring performance over a long time period, it is incorrect when estimating a risk premium to compute the cost of capital.

TAI GEOMETRIC VS.	BLE 4A-1 ARITHMETIC RET	URNS
	Stock A	Stock B
1996	50.0%	11.61%
1997	- 54.7%	11.61%
1998	98.5%	11.61%
1999	42.2%	11.61%
2000	-32.3%	11.61%
2001	-39.2%	11.61%
2002	153.2%	11.61%
2003	- 10.0%	11.61%
2004	38.9%	11.61%
2005	20.0%	11.61%
Standard Deviation	64.9%	0.0%
Arithmetic Mean	26.7%	11.6%
Geometric Mean	11.6%	11.6%

Theory

The geometric mean measures the magnitude of the returns, as the investor starts with one portfolio and ends with another. It does not measure the variability of the journey, as does the arithmetic mean. The geometric mean is backward looking. There is no difference in the geometric mean of two stocks or portfolios, one of which is highly volatile and the other of which is absolutely stable. The arithmetic mean, on the other hand, is forward-looking in that it does impound the volatility of the stocks.

To illustrate, Table 4A-1 shows the historical returns of two stocks, the first one is highly volatile with a standard deviation of returns of 65% while the second one has a zero standard deviation. It makes no sense intuitively that the geometric mean is the correct measure of return, one that implies that both stocks are equally risky since they have the same geometric mean. No rational investor would consider the first stock equally as risky as the second stock. Every financial model to calculate the cost of capital recognizes that investors are risk-averse and avoid risk unless they are adequately compensated for undertaking it. It is more consistent to use the mean that fully impounds risk (arithmetic mean) than the one from which risk has been removed (geometric mean). In short, the arithmetic mean recognizes the uncertainty in the stock market while the geometric mean removes the uncertainty by smoothing over annual differences.

Empirical Evidence

If both the geometric and arithmetic mean returns over the 1926-2004 data are regressed against the standard deviation of returns for the firms in the

deciles, the arithmetic mean outperforms the geometric mean in this statistical regression. Moreover, the constant of arithmetic mean regression matches the average Treasury bond rate and therefore makes economic sense while the constant for the geometric mean matches nothing in particular. This is simply because the geometric mean is stripped of volatility information and, as a result, does a poor job of forecasting returns based on volatility.

The following illustration is frequently invoked in defense of the geometric mean. Suppose that a stock's performance over a two-year period is representative of the probability distribution, doubling in one year $(r_1 = 100\%)$ and halving in the next $(r_2 = -50\%)$. The stock's price ends up exactly where it started, and the geometric average annual return over the two-year period, r_g , is zero:

$$1 + r_g = [(1 + r_1)(1 + r_2)]^{1/2}$$
$$= [(1 + 1)(1 - .50)]^{1/2} = 1$$
$$r_g = 0$$

confirming that a zero year-by-year return would have replicated the total return earned on the stock. The expected annual future rate of return on the stock is not zero, however. It is the arithmetic average of 100% and -50%, (100-50)/2=25%. There are two equally likely outcomes per dollar invested: either a gain of \$1 when r=100% or a loss of \$0.50 when r=-50%. The expected profit is (\$1-\$.50)/2=\$.25 for a 25% expected rate of return. The profit in the good year more than offsets the loss in the bad year, despite the fact that the geometric return is zero. The arithmetic average return thus provides the best guide to expected future returns.

What Academics Have to Say

Bodie, Kane, and Marcus (2005) cite:

Which is the superior measure of investment performance, the arithmetic average or the geometric average? The geometric average has considerable appeal because it represents the constant rate of return we would have needed to earn in each year to match actual performance over some past investment period. It is an excellent measure of *past* performance. However, if our focus is on future performance, then the arithmetic average is the statistic of interest because it is an unbiased estimate of the portfolio's expected future return (assuming, of course, that the expected return does not change over time). In contrast, because the geometric return over a sample period is always less than the arithmetic mean,

it constitutes a downward-biased estimator of the stock's expected return in any future year.

Again, the arithmetic average is the better guide to future performance.

Another way of stating the Bodie, Kane, Marcus argument in favor of the arithmetic mean is that it is the best estimate of the future value of the return distribution because it represents the expected value of the distribution. It is most useful for determining the central tendency of a distribution at a particular time, that is, for cross-sectional analysis. The geometric mean, on the other hand, is best suited for measuring an investment's compound rate of return over time, that is, for time-series analysis. This is the same argument made by Ibbotson Associates (2005) where it is shown, using probability theory, that future terminal wealth is given by compounding the arithmetic mean, and not the geometric mean. In other words, if we accept the past as prologue, the best estimate of a future year's return based on a random distribution of the prior years' returns is the arithmetic average. Statistically, it is our best guess for the holding-period return in a given year.

Brigham and Ehrhardt (2005) in their widely used corporate finance text point out that the arithmetic average is more consistent with CAPM theory, as one of its key underpinning assumptions is that investors are supposed to focus, in their portfolio decisions, upon returns in the next period and the standard deviation of this return. To the extent that this next period is one year, the preference for the arithmetic mean, which derives from a set of single one year period returns, follows. It is also noteworthy that one of the crucial assumptions inherent in the CAPM is that investors are single-period expected utility of terminal wealth maximizers who choose among alternative portfolios on the basis of each portfolio's expected return and standard deviation.

Brealey, Myers, and Allen (2006) in their leading graduate textbook in corporate finance opt strongly for the arithmetic mean. The authors illustrate the distinction between arithmetic and geometric averages and conclude that arithmetic averages are appropriate when estimating the cost of capital:

The proper uses of arithmetic and compound rates of return from past investments are often misunderstood. Therefore, we call a brief time-out for a clarifying example.

Suppose that the price of Big Oil's common stock is \$100. There is an equal chance that at the end of the year the stock will be worth \$90, \$110, or \$130. Therefore, the return could be -10 percent, +10 percent or +30 percent (we assume that Big Oil does not pay a dividend). The expected return is 1/3(-10+10+30) = +10 percent.

If we run the process in reverse and discount the expected cash flow by the expected rate of return, we obtain the value of Big Oil's stock:

 $PV = \frac{110}{110} = 100

The expected return of 10 percent is therefore the correct rate at which to discount the expected cash flow from Big Oil's stock. It is also the opportunity cost of capital for investments which have the same degree of risk as Big Oil.

Now suppose that we observe the returns on Big Oil stock over a large number of years. If the odds are unchanged, the return will be -10 percent in a third of the years, +10 percent in a further third, and +30 percent in the remaining years. The arithmetic average of these yearly returns is

$$\frac{-10+10+30}{3}=+10\%$$

Thus the arithmetic average of the returns correctly measures the opportunity cost of capital for investments of similar risk to Big Oil stock.

The average compound annual return on Big Oil stock would be

$$(.9 \times 1.1 \times 1.3)^{1/3} - 1 = .088$$
, or 8.8%

less than the opportunity cost of capital. Investors would not be willing to invest in a project that offered an 8.8 percent expected return if they could get an expected return of 10 percent in the capital markets. The net present value of such a project would be

$$NPV = -100 + \frac{108.8}{1.1} = -1.1$$

Moral: If the cost of capital is estimated from historical returns or risk premiums, use arithmetic averages, not compound annual rates of return (geometric averages).

(Richard A. Brealey, Stewart C. Myers, and Paul Allen, *Principles of Corporate Finance*, 8th Edition, Irwin McGraw-Hill, 2006, page 156-7.)

The widely cited Ibbotson Associates publication also contains a detailed and rigorous discussion of the impropriety of using geometric averages in estimating the cost of capital.¹²

¹² Ibbotson Associates, Stocks, Bonds, Bills, and Inflation, 2005 Yearbook, Valuation Edition, page 75.

The arithmetic average equity risk premium can be demonstrated to be most appropriate when discounting future cash flows. For use as the expected equity risk premium in either the CAPM or the building block approach, the arithmetic mean or the simple difference of the arithmetic means of stock market returns and riskless rates is the relevant number. This is because both the CAPM and the building block approach are additive models, in which the cost of capital is the sum of its parts. The geometric average is more appropriate for reporting past performance, since it represents the compound average return.

The argument for using the arithmetic average is quite straightforward. In looking at projected cash flows, the equity risk premium that should be employed is the equity risk premium that is expected to actually be incurred over the future time periods.

The best estimate of the expected value of a variable that has behaved randomly in the past is the average (or arithmetic mean) of its past values.

In their widely publicized research on the market risk premium, Dimson, Marsh and Staunton (2002) state

The arithmetic mean of a sequence of different returns is always larger than the geometric mean. To see this, consider equally likely returns of +25 and -20 percent. Their arithmetic mean is $2\frac{1}{2}$ percent, since $(25 - 20)/2 = 2\frac{1}{2}$. Their geometric mean is zero, since $(1 + 25/100) \times (1 - 20/100) - 1 = 0$. But which mean is the right one for discounting risky expected future cash flows? For forward-looking decisions, the arithmetic mean is the appropriate measure.

To verify that the arithmetic mean is the correct choice, we can use the $2\frac{1}{2}$ percent required return to value the investment we just described. A \$1 stake would offer equal probabilities of receiving back \$1.25 or \$0.80. To value this, we discount the cash flows at the arithmetic mean rate of $2\frac{1}{2}$ percent. The present values are respectively \$1.25/1.015 = \$1.22 and \$0.80/1.025 = \$0.78, each with equal probability, so the value is $$1.22 \times \frac{1}{2} + $0.80 \times \frac{1}{2} = 1.00 . If there were a sequence of equally likely returns of +25 and -20 percent, the geometric mean return will eventually converge on zero. The $2\frac{1}{2}$ percent forward-looking arithmetic mean is required to compensate for the year-to-year volatility of returns.

Lastly, on the practical side, Bruner, Eades, Harris, and Higgins (1998) found that 71% of the texts and tradebooks in their extensive survey of practice supported use of an arithmetic mean for estimation of the cost of equity.

Mean Reversion Argument

Some academics have argued that if stock returns were expected to revert to a trend, this would suggest the use of a geometric mean since the geometric mean is, by definition, an estimate of a smoothed long-run trend increment. These same academics have argued that the historical estimate of the market risk premium ("MRP") is upward-biased by the buoyant performance of the stock market prior to 2002, and because of the extraordinary and unusually high realized MRPs in those years, investors expect a return to lower MRPs in the future, bringing the average MPR to a more "normal" level.

The presence or absence of mean reversion is an empirical issue. The empirical findings are weak and highly contradictory; the empirical evidence is inconclusive and unconvincing, certainly not enough to support the "mean reversion" hypothesis. The weight of the empirical evidence on this issue is that the more sophisticated tests of mean reversion in the MRP demonstrate that the realized MRP over the last 75 years or so was almost perfectly free of mean reversion, and had no statistically identifiable time trend. It is also noteworthy that most of these studies were performed prior to the stock market's debacle in 2000–2002, years of extraordinary and unusually low realized MRPs. The stock market's dismal performance of 2000–2002 has certainly taken the wind out of the mean reversion school's sails.

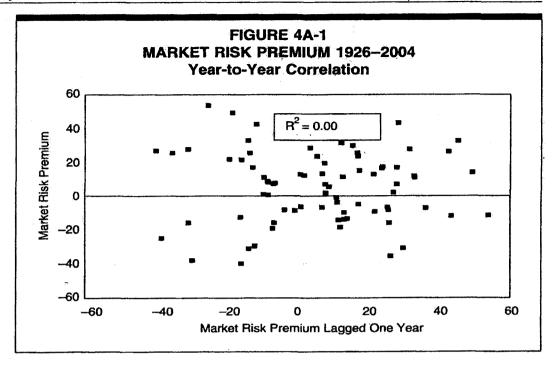
An examination of historical MRPs reveals that the MRP is random with no observable pattern. To the extent that the estimated historical equity risk premium follows what is known in statistics as a random walk, one should expect the equity risk premium to remain at its historical mean. Therefore, the best estimate of the future risk premium is the historical mean.

Ibbotson Associates (2005) find no evidence that the market price of risk or the amount of risk in common stocks has changed over time:

Our own empirical evidence suggests that the yearly difference between the stock market total return and the U.S. Treasury bond income return in any particular year is random . . . there is no discernable pattern in the realized equity risk premium. (Ibbotson Associates, Stocks, Bonds, Bills, and Inflation, 2005 Yearbook, Valuation Edition, pages 74-75)

In statistical parlance, there is no significant serial correlation in successive annual market risk premiums, that is, no trend. Ibbotson Associates go on to state that it is reasonable to assume that these quantities will remain stable in the future (*Id.*):

The best estimate of the expected value of a variable that has behaved randomly in the past is the average (or arithmetic mean)



of its past values. (Ibbotson Associates, Stocks, Bonds, Bills, and Inflation, 2004 Yearbook, Valuation Edition, page 75)

Nowhere is it suggested by Ibbotson Associates that the market risk premium has declined over time.

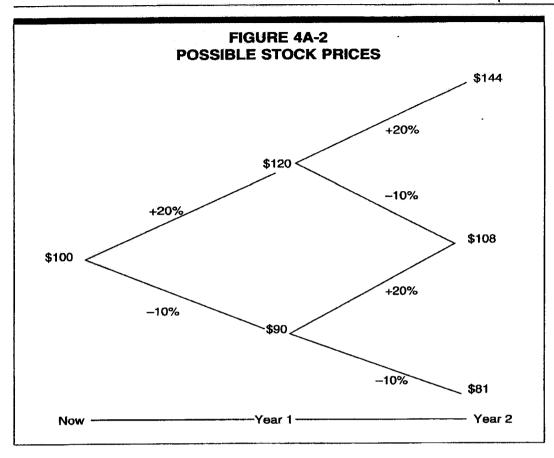
Because there is little evidence that the MRP has changed over time, it is reasonable to assume that these quantities will remain stable in the future. Figure 4A-1 shows the relationship, or the lack of relationship, between year-to-year MRPs reported in the Ibbotson Associates Valuation Yearbook, 2005 edition, for the 1926–2004 period. The relationship is virtually absent, as indicated by the low R² of zero between successive MRPs. In other words, there is no history in successive MRPs as indicated by the zero serial correlation coefficient.

In short, the determination of the cost of capital with the CAPM requires an unbiased estimate of the expected annual return. The expected arithmetic return provides the appropriate measure for this purpose.

Formal Demonstration

This section shows why arithmetic rather than geometric means should be used for forecasting, discounting, and estimating the cost of capital.¹³ By

¹³ This section is adapted from a similar treatments and demonstration in Brealey, Myers, and Allen (2006) and Ibbotson Associates (2005).



definition, the cost of equity capital is the annual discount rate that equates the discounted value of expected future cash flows (from dividends and the sale of the stock at the end of the investor's investment horizon) to the current market price of a share in the firm. The discount rate that equates the discounted value of future expected dividends and the end of period expected stock price to the current stock price is a prospective arithmetic, rather than a prospective geometric, mean rate of return. Since future dividends and stock prices cannot be predicted with certainty, the "expected" annual rate of return that investors require is an average "target" percentage rate around which the actual, year-by-year returns will vary. This target rate is, in effect, an arithmetic average.

A numerical illustration will clarify this important point. Consider a non-dividend paying stock trading for \$100 which has, in every year, an equal chance of appreciating by 20% or declining by 10%. Thus, after one year, there is an equal chance that the stock's price will be \$120 and an equal chance the price will be \$90. Figure 4A-2 presents all possible eventualities after two periods have elapsed (the rates of return are presented at the end of the lines in the diagram).

The possible stock prices are shown in the following table.

!	ABLE 4A-2 S AFTER TWO PERIODS
Price	Chance
\$144	1 chance in 4
\$108	2 chances in 4
\$ 81	1 chance in 4

The expected future stock price after two periods is then:

$$1/4$$
 (\$144) + $2/4$ (\$108) + $1/4$ (\$81) = \$110.25

The cost of equity capital is calculated as the discount rate that equates the present value of the future expected cash flows to the current stock price. In the present simple example, the only cash flow is the gain from selling the stock after two periods have elapsed. Thus, using the expected stock price of \$110.25 calculated above, the expected rate of return is that r, which solves the following equation:

Current Stock Price =
$$\frac{\text{Expected Stock Price}}{(1 + r)^2}$$

The factor $(1 + r)^2$ discounts the expected stock price to the present. Substituting the numerical values, we have:

$$100 = \frac{110.25}{(1+r)^2}$$

 $r = 5\%$

Thus, the cost of equity capital is 5%. This 5% cost of equity capital is equal to the prospective arithmetic mean rate of return, which is the probability-weighted average single period rate of return on equity. Since in every period there is an equal chance that the stock's return will be 20% or -10%, the probability-weighted average is:

$$1/2 (20\%) + 1/2 (-10\%) = 5\%$$

However, the 5% cost of equity capital is not equal to the prospective geometric mean rate of return, which is a probability-weighted average of the possible compounded rates of return over the two periods. Now consider the prospective geometric mean rate of return. Table 4A-3 shows the possible compounded rates of return over two periods, and the probability of each.

Thus, the prospective geometric mean rate of return is:

$$1/4 (20\%) + 2/4 (3.92\%) + 1/4 (-10\%) = 4.46\%$$

STOCK P	TABLE 4A RICES AND RETURNS	N-3 S AFTER TWO PERIODS
Price	Chance	Compounded Return
\$144	1 chance in 4	20.00%
\$108	2 chances in 4	3.92%
\$ 81	1 chance in 4	-10.00%

This return is not equal to the 5% cost of equity capital.

The example can easily be extended to include the case of a dividend-paying company and will reach the same conclusion: the implied discount rate calculated in the DCF model is an expected arithmetic rather than an expected geometric mean rate of return.

The foregoing analysis shows that it is erroneous to use a prospective multiyear geometric mean rate of return as a "target" rate of return for each year of the period. If, for example, investors currently require an expected future rate of return on an investment of 13% each year, then 13% is the appropriate annual rate of return on equity for ratemaking purposes. Consequently, in using a risk premium approach for the purposes of rate of return regulation, the single-year annual required rate of return should be estimated using arithmetic mean risk premiums.

It should be pointed out that the use of the arithmetic mean does not imply an investment holding period of one year. Rather, it is premised on the uncertainty with respect to each year's return during the holding period, however many years that may be. When computing the arithmetic average of historic annual returns in order to calculate the average return (expected value of the return), every achieved return outcome is one possible future outcome for each year the security will be held. Each historic return has an equal probability of occurring during each year of the holding period. The resulting expected value of the risk premium is the arithmetic average of all of the past premiums considered, regardless of the length of the expected holding period.